

HISTORY INFORMATION FOR THE FOLLOWING MANUAL:

SERVICE MANUAL

DA-4X CHASSIS

<u>MODEL NAME</u>	<u>REMOTE COMMANDER</u>	<u>DESTINATION</u>	<u>CHASSIS NO.</u>
KP-57WV600	RM-Y188	US/CND	SCC-P92D-A
KP-57WV700	RM-Y188	US/CND	SCC-P92B-A
KP-65WV600	RM-Y188	US/CND	SCC-P92C-A
KP-65WV700	RM-Y188	US/CND	SCC-P92A-A

ORIGINAL MANUAL ISSUE DATE: 6/2002

ALL REVISIONS AND UPDATES TO THE ORIGINAL MANUAL ARE APPENDED TO THE END OF THE PDF FILE.

REVISION DATE	REVISION TYPE	SUBJECT
6/2002	No revisions or updates are applicable at this time.	
7/2002	Re-release Manual	Revised Service Data List (pgs. 21, 22, 25, 43, 44, 45) Revised Circuit Boards Location (pg. 60) to include U Board and UD Board Removed Shade(B) (pg. 110)
8/2002	Correction-1	Revised Exploded View Cover diagrams to reflect accurate position of Contrast Screen Assembly. (pgs.107 & 108)
10/2002	Correction-2	Corrected P/N for Rear Boards on Exploded View Cover parts list, and added P/N for Mirror Cover. (pg.107)
11/2002	Supplement-1	Replaced MS1 Board with BM1C Board, Updated AD Board and D Board, Updated Exploded View P/Ns, Updated Parts List
1/2003	Correction-3	Convergence Adjustment Procedure (pgs. 48 & 52)
1/2003	Correction-4	Corrected P/N for Caster on Exploded View Chassis parts list. (pg.109)
9/2003	Correction-5	Corrected A PWB Component and Conductor side (pg. 75& 76))
10/2004	Removed Note from section 2-12-1. Setup For Adjustment. Note is intended for use by the factory during production, and should not be performed by service technicians.	Replaced Pg. 48 with Pg. 48

COLOR REAR VIDEO PROJECTOR

SONY®

SERVICE MANUAL

DA-4X CHASSIS

<u>MODEL NAME</u>	<u>REMOTE COMMANDER</u>	<u>DESTINATION</u>	<u>CHASSIS NO.</u>
KP-57WV600	RM-Y188	US/CND	SCC-P92D-A
KP-57WV700	RM-Y188	US/CND	SCC-P92B-A
KP-65WV600	RM-Y188	US/CND	SCC-P92C-A
KP-65WV700	RM-Y188	US/CND	SCC-P92A-A



KP-57WV600



RM-Y188

COLOR REAR VIDEO PROJECTOR

SONY®

TABLE OF CONTENTS

SECTION TITLE	PAGE	SECTION TITLE	PAGE
Specifications	4	4. Circuit Adjustments	
Warnings and Cautions	5	4-1. P&P Sub Contrast Adjustment (Video) (SCON)	58
Safety Check-Out	6	4-2. P&P Sub Contrast Adjustment (RF) (SCON).....	58
Self-Diagnostic Function.....	7	4-3. P&P Sub-Hue and Sub-Color Adjustment Video (SHUE, SCOL)	58
1. Disassembly		4-4. P&P Sub-Hue and Sub-Color Adjustment (RF) (SHUE, SCOL)	58
1-1. Rear Board Removal	10	4-5. Blue Offset Adjustment	59
1-2. Chassis Assembly Removal	10	5. Diagrams	
1-3. Service Position	10	5-1. Circuit Boards Location	60
1-4. Terminal Board and UD Board Removal	11	5-2. Printed Wiring Boards and Schematic Diagrams Information	60
1-5. AD Board, B Board, M Board, MS1 Board, and U Board Removal	11	5-3. Block Diagrams	62
1-6. D Board, A Board, and G Board Remvoal	12	5-4. Schematics and Supporting Information.....	65
1-7. High-Voltage Cable Installation and Removal	12	VM Board	65
1-8. Picture Tube Removal	13	CR Board	67
1-9. Grille, HA Board, HM Board, and HB Board Removal	13	CG Board	68
1-10. Beznet Assembly Removal.....	14	CB Board.....	69
1-11. SR Board Removal	14	U Board	70
1-12. Mirror Cover Removal (KP-57WV600/57WV700 Only) ...	15	UD Board	72
2. Set-up Adjustments		A Board	74
2-1. Screen Voltage Adjustment (G2) (Coarse Adjustment) ...	16	B Board	77
2-2. Screen (G2) Adjustment (Fine Adjustments)	16	MS1 Board	85
2-3. Deflection Yoke Tilt Adjustment	16	G Board.....	89
2-4. Focus Lens Adjustment	17	AD Board.....	91
2-5. Focus VR Adjustment.....	17	D Board	94
2-6. 2-Pole Magnet Adjustment	18	M Board.....	97
2-7. Centering Magnet Adjustment	18	HB Board.....	102
2-8. 4-Pole Magnet Adjustment	18	HM Board	103
2-9. Defocus Adjustment (Blue).....	18	SR Board.....	104
2-10. Electrical Adjustments By Remote Commander.....	19	HA Board.....	105
2-11. Service Data Lists.....	20	5-5. Semiconductors.....	106
2-12. Registration Adjustment (PJE mode only)	48	6. Exploded Views	
2-13. PJE Adjustment (Sub Deflection Adjustment).....	50	6-1. Cover (KP-57WV600/57WV700 Only)	107
2-14. Auto Registration Offsets.....	53	6-2. Cover (KP-65WV600/65WV700 Only).....	108
2-15. Auto Registration Error Codes.....	54	6-3. Chassis.....	109
2-16. Auto Registration Diagnostics	55	6-4. Picture Tube	110
3. Safety Related Adjustments		7. Electrical Parts List	111
D Board			
3-1. HV Regulation Circuit Check and Adjustment	56		
3-2. HV Hold Down Circuit Operation Check and Adjustment.....	56		
G Board			
3-3. +B Max Voltage Confirmation	57		
3-4. +B OVP Confirmation	57		

SPECIFICATIONS

Power Requirements 120V AC, 60Hz

Power Consumption (W)

In Use (Max) 295W
In Standby 1 W

Inputs/Outputs DVI-HDTV

1 terminal, 3.3V T.M.D.S., 50 ohms
The DVI-HDTV input terminal is compliant with the EIA-861 standard and is not intended for use with personal computers.

Video (IN)

4 total (1 on front panel)
1Vp-p, 75ohms unbalanced, sync negative

S Video (IN)

3 total (1 on front panel)
Y: 1Vp-p, 75ohms unbalanced, sync negative
C: 0.286Vp-p (Burst signal), 75ohms

Audio (IN)

7 total (1 on front panel)
500 mVrms (100% modulation)
Impedance:47 kilohm

Component Video Input

2 total
Y: 1.0 Vp-p, 75 ohms unbalanced, sync negative;
P_B: 0.7 Vp-p, 75 ohms;
P_R: 0.7 Vp-p, 75 ohms

Control S (IN/OUT)

Variable/Fixed Audio (OUT)
More than 408 m Vrms at the maximum volume setting (Variable)
More than 408 m Vrms (Fixed) Impedance (output):2 kilohms

	KP-57WV600 KP-57WV700	KP-65WV600	KP-65WV700
Speaker Output (W)	20W x 2		
Dimensions (W x H x D) mm in	1361 x 1394 x 689 mm 53 ^{5/8} x 54 ^{15/16} x 27 ^{1/8} in	1542 x 1516 x 735 mm 60 ^{3/4} x 59 ^{3/4} x 28 ^{15/16} in	
Mass kg lbs	98 kg 216 lbs	136 kg 300 lbs	134 kg 295 lbs

Projection System

3 picture tubes, 3 lenses, horizontal in-line system

Picture Tube

7-inch high-brightness monochrome tubes (6.3 raster size), with optical coupling and liquid cooling system.

Projection Lenses

High performance, large diameter hybrid lens F1.1

Antenna

75 ohm external terminal for VHF/UHF

Television System

NTSC, American TV Standard

Channel Coverage

VHF: 2-13/ VHF: 14-69/ CATV: 1-125

Screen Size (measured diagonally)

57 inches (KP-57WV600/57WV700)
65 inches (KP-65WV600/65WV700)

Supplied Accessories

Remote Control RM-Y188
Batteries (2) size AA (R6)

Optional Accessories

A/V Cable (VMC-810/820/830 HG)
Audio Cable (RKC-515HG)
Component Video Cable (VMC-10/30 HG)
Control S Cable (RK-G69HG)
Memory Stick media:
8 MB (MSA-8A)
16 MB (MSA-16A)
32 MB (MSA-32A)
64 MB (MSA-64A)
128 MB (MSA-128A)

WARNINGS AND CAUTIONS

CAUTION

Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield, or carbon painted on the CRT, after removing the anode.

WARNING!!

An isolation transformer should be used during any service to avoid possible shock hazard, because of live chassis. The chassis of this receiver is directly connected to the ac power line.



SAFETY-RELATED COMPONENT WARNING!!

Components identified by shading and  mark on the schematic diagrams, exploded views, and in the parts list are critical for safe operation. Replace these components with Sony parts whose part numbers appear as shown in this manual or in supplements published by Sony. Circuit adjustments that are critical for safe operation are identified in this manual. Follow these procedures whenever critical components are replaced or improper operation is suspected.

ATTENTION!!

Après avoir déconnecté le cap de l'anode, court-circuiter l'anode du tube cathodique et celui de l'anode du cap au châssis métallique de l'appareil, ou la couche de carbone peinte sur le tube cathodique ou au blindage du tube cathodique.

Afin d'éviter tout risque d'électrocution provenant d'un châssis sous tension, un transformateur d'isolement doit être utilisé lors de tout dépannage. Le châssis de ce récepteur est directement raccordé à l'alimentation du secteur.



ATTENTION AUX COMPOSANTS RELATIFS A LA SECURITE!!

Les composants identifiés par une trame et par une marque  sur les schémas de principe, les vues explosées et les listes de pièces sont d'une importance critique pour la sécurité du fonctionnement. Ne les remplacer que par des composants Sony dont le numéro de pièce est indiqué dans le présent manuel ou dans des suppléments publiés par Sony. Les réglages de circuit dont l'importance est critique pour la sécurité du fonctionnement sont identifiés dans le présent manuel. Suivre ces procédures lors de chaque remplacement de composants critiques, ou lorsqu'un mauvais fonctionnement suspecte.

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

1. Check the area of your repair for unsoldered or poorly soldered connections. Check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are "pinched" or touching high-wattage resistors.
3. Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.
4. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
5. Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
6. Check the line cords for cracks and abrasion. Recommend the replacement of any such line cord to the customer.
7. Check the B+ and HV to see if they are specified values. Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.
8. Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

Leakage Test

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instructions.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low voltage scale. The Simpson's 250 and Sanwa SH-63TRD are examples of passive VOMs that are suitable. Nearly all battery-operated digital multimeters that have a 2 VAC range are suitable (see Figure A).

How to Find a Good Earth Ground

A cold-water pipe is a guaranteed earth ground; the cover-plate retaining screw on most AC outlet boxes is also at earth ground. If the retaining screw is to be used as your earth ground, verify that it is at ground by measuring the resistance between it and a cold-water pipe with an ohmmeter. The reading should be zero ohms.

If a cold-water pipe is not accessible, connect a 60- to 100-watt trouble-light (not a neon lamp) between the hot side of the receptacle and the retaining screw. Try both slots, if necessary, to locate the hot side on the line; the lamp should light at normal brilliance if the screw is at ground potential (see Figure B).

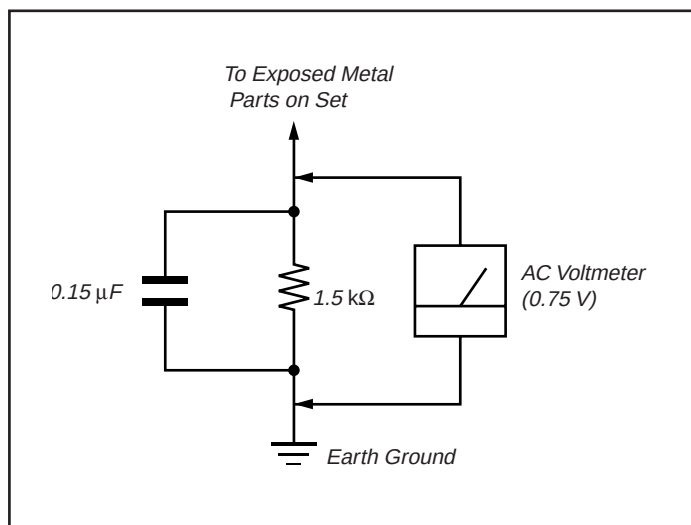


Figure A. Using an AC voltmeter to check AC leakage.

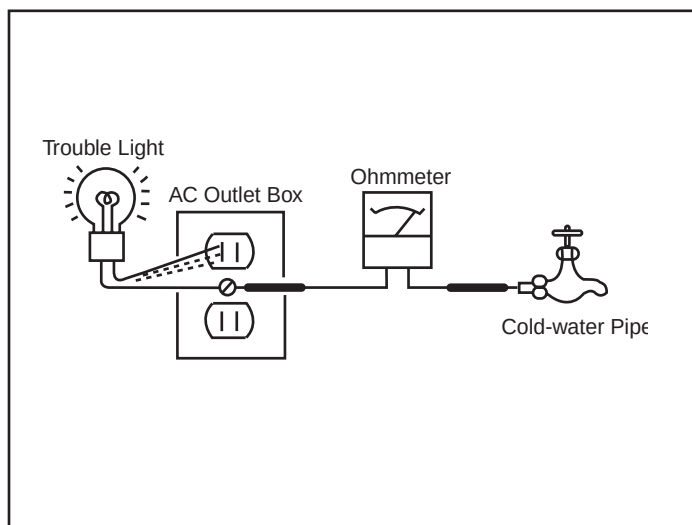


Figure B. Checking for earth ground.

SELF-DIAGNOSTIC FUNCTION



The units in this manual contain a self-diagnostic function. If an error occurs, the STANDBY/TIMER LED will automatically begin to flash. The number of times the LED flashes translates to a probable source of the problem. A definition of the STANDBY/TIMER LED flash indicators is listed in the instruction manual for the user's knowledge and reference. If an error symptom cannot be reproduced, the Remote Commander can be used to review the failure occurrence data stored in memory to reveal past problems and how often these problems occur.

Diagnostic Test Indicators

When an error occurs, the STANDBY/TIMER LED will flash a set number of times to indicate the possible cause of the problem. If there is more than one error, the LED will identify the first of the problem areas.

Results for all of the following diagnostic items are displayed on screen. If the screen displays a "0", no error has occurred.

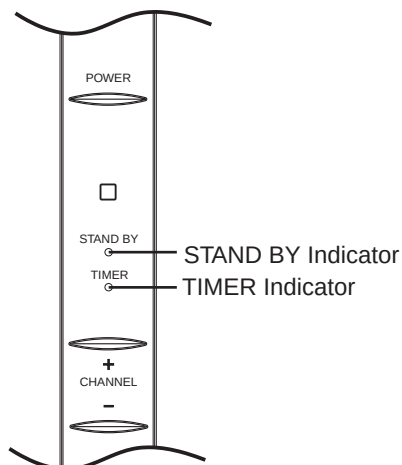
Diagnostic Item	No. of times STANDBY / TIMER lamp flashes	Display Result	Probable Cause Location	Detected Symptoms
Power does not turn on	Does not light	_____	- Power cord is not plugged in. - Fuse is burned out (F501). (A Board)	- Power does not come on. - No power is supplied to the TV. - AC Power supply is faulty.
+B Overcurrent (OCP)*	2 times	2:0 or 2:1	- H.OUT (Q8024) is shorted. (D Board) +B PWM (Q8035) is shorted. (D Board)	- Power does not come on. - Load on power line shorted.
Low +B Overvoltage (OVP)	3 times	3:0 or 3:1	IC6504 is faulty. (D Board)	Has entered standby mode.
Vertical Deflection Stopped	4 times	4:0 or 4:1	15V is not supplied. (D Board) - IC8003 is faulty. (D Board)	- Has entered standby mode after Horizontal raster. - Vertical deflection pulse is stopped. - Power line is shorted or power supply is stopped.
White Balance Failure (not balanced)	5 times	5:0 or 5:1	- Video OUT (IC9101, IC9201, IC9301) is faulty. (CR, CG, CB Board) - CRT drive (IC2801) is faulty. (B Board) - G2 is improperly adjusted.**	- No raster is generated. - CRT cathode current detection reference pulse output is small.
LOW +B OCP/OVP (overcurrent/overvoltage)***	6 times	6:0 or 6:1	+5 line is overloaded. (A, B, M Boards) +5 line is shorted. (A, B, M Boards) - IC504 is faulty. (A Board)	No picture
Horizontal Deflection Stopped	7 times	7:0 or 7:1		No picture

* If a +B overcurrent is detected, stoppage of the vertical deflection is detected simultaneously. The symptom that is diagnosed first by the microcontroller is displayed on the screen.

** Refer to Screen (G2) Adjustment (Fine Adjustments) in Section 2 of this manual.

*** If STANDBY/STEREO LED flashes six (6) times, unplug the unit and wait 10 seconds before performing the adjustment.

Display of Standby/Timer LED Flash Count



Diagnostic items	Flash count	
+B Overcurrent	2 times	
Low +B Overvoltage	3 times	
Vert. Deflection Stopped	4 times	
White Balance Failure	5 times	
Low +B OCP/OVP	6 times	
Horiz. Deflection Stopped	7 times	

Lamp ON 0.3 sec. →
Lamp OFF 0.3 sec. → **Lamp OFF 3 sec.**

Release of TIMER STAND BY indicator blinking

The TIMER/STANDBY indicator blinking display is released by turning OFF the power switch on the TV main unit or removing the plug from the power.

Self-Diagnosis Screen Displays

In cases of malfunctions where it is not possible to determine the symptom such as when the power goes off occasionally or when the screen disappears occasionally, there is a screen display on whether the malfunction occurred or not in the past (and whether the detection circuit operated or not) in order to allow confirmation.

Screen Display Method

Quickly press the remote command button in the following order from the standby state.

Display → Channel **5** → Sound Volume* **+** → Power ON

*Note that this differs from entering the service mode (sound volume **+**)

SELF DIAGNOSIS	
2: +B OCP	0
3: +B OVP	0
4: VSTOP	0
5: AKB	1
6: LOWB	0
7: H-STOP	0
101: WDT	24

Numeral "0"
 means that no fault was detected.
 Numeral "1"
 means a fault was detected one
 time only.

Self-Diagnosis Screen Display

The results display is not automatically cleared. In case of repairs and after repairs, check the self-diagnosis screen and be sure to return the results display to "0".

If the results display is not returned to "0" it will not be possible to judge a new malfunction after completing repairs.

Method of Clearing Results Display

1. Power off (Set to the standby mode.)
2. **Display** → Channel **5** → Sound Volume **+** → Power ON (Service Mode)
3. Channel **8** → **ENTER** (Test reset = Factory preset condition)

Method of Ending Self Diagnosis Screen

When ending the self-diagnosis screen completely, turn the power switch OFF on the remote commander or the main unit.

Self-Diagnosis Function Operation

+B overcurrent (OCP)

Occurs when excessive current flows through R5013. The increase in voltage across R5013 causes the output of Q5004 to go high, and this high signal goes to the micro.

+B overvoltage (OVP)

IC6505 detects +B OVP condition and turns on Q6522. This sends a high signal to the micro and also shuts down the AC relay.

V-STOP

Occurs when an absence of the vertical deflection pulse is detected by pin 24 of IC2801 (B Board). Power supply will shut down when waveform interval exceeds 2 seconds.

White Balance Failure

If the RGB levels* do not balance within 2 seconds after the power is turned on, this error will be detected by IC2801. TV will stay on, but there will be no picture.

*(Refers to the RGB levels of the AKB detection Ref pulse that detects 1K).

Low B OCP/OVP

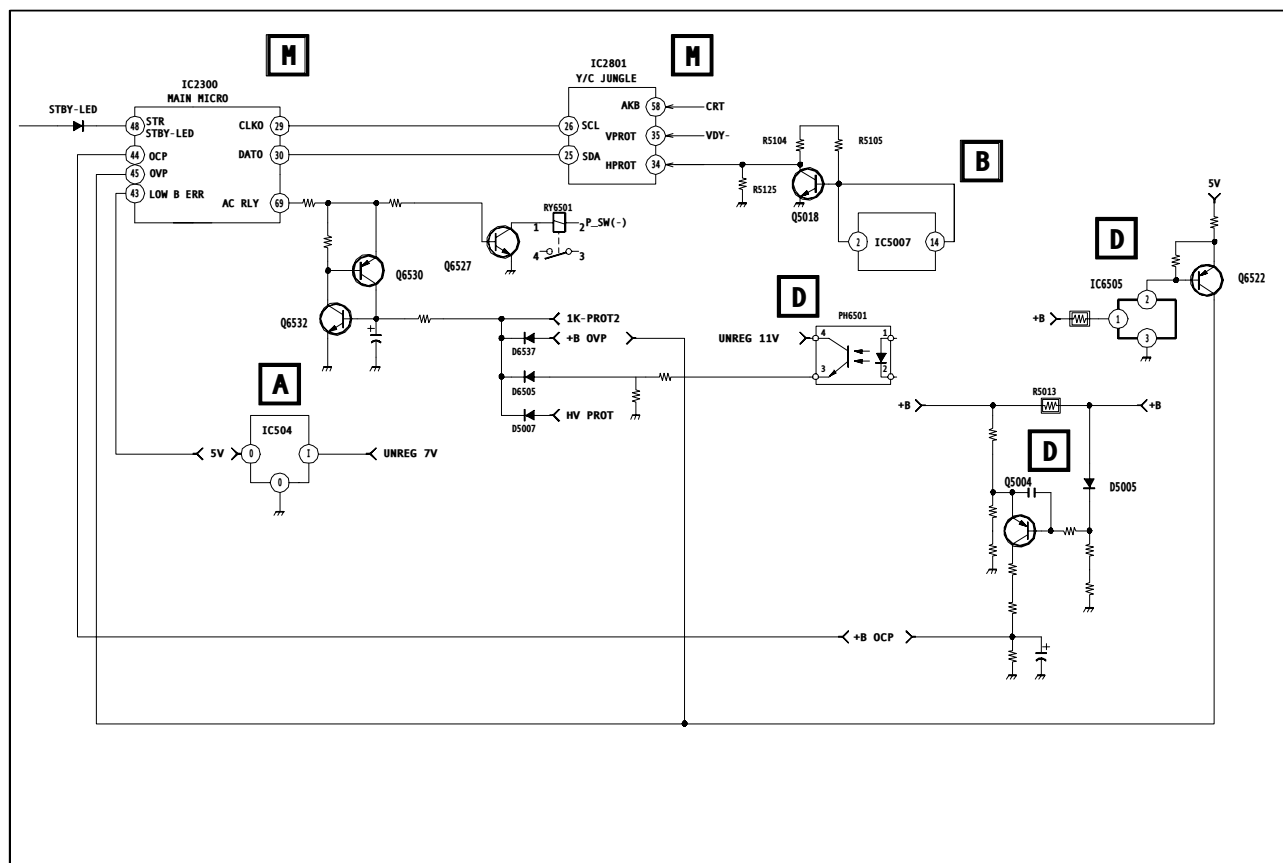
Occurs when set 5V is out.

Horizontal Deflection Stopped

Occurs when either:

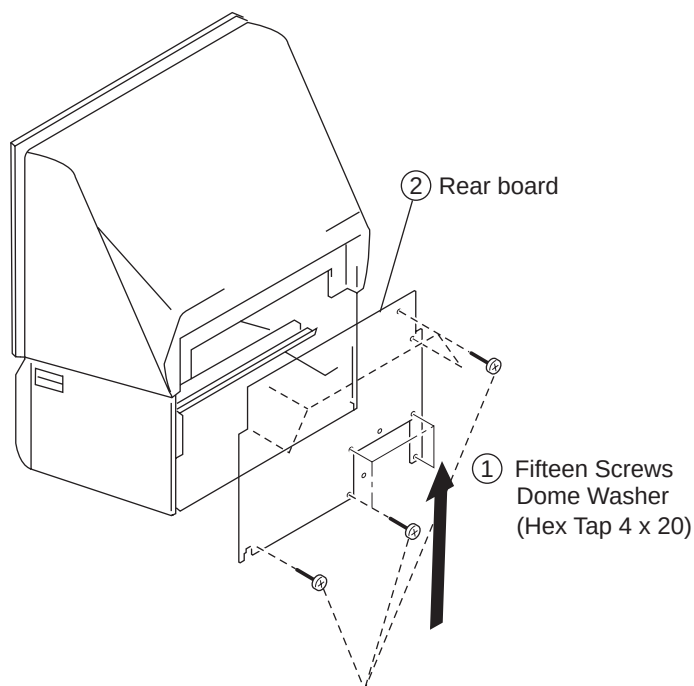
- 1) a +B overcurrent is detected (IC5007), or
- 2) overheating is detected (Thermistor TH5002).

Self-Diagnosis Block Diagram

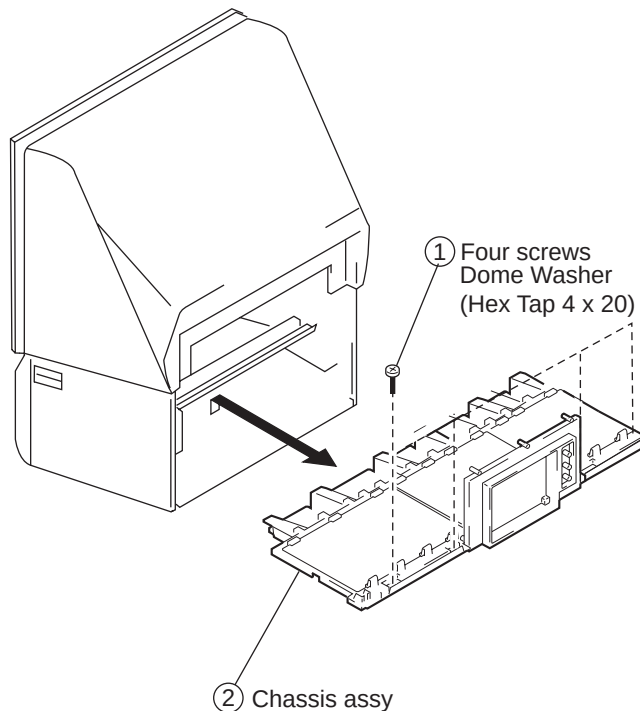


SECTION 1: DISASSEMBLY

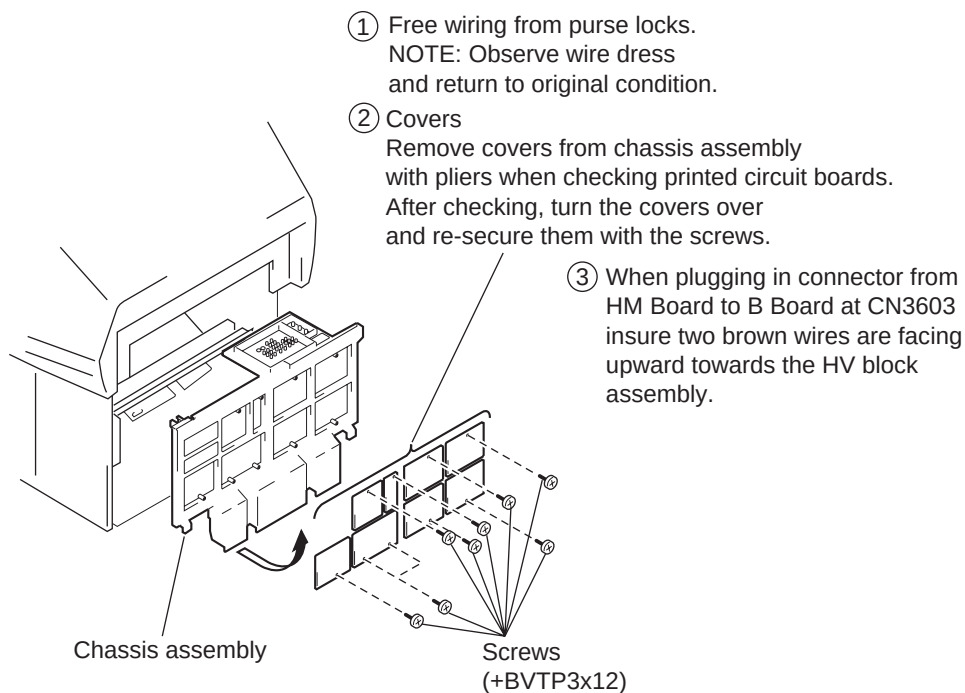
1-1. REAR BOARD REMOVAL



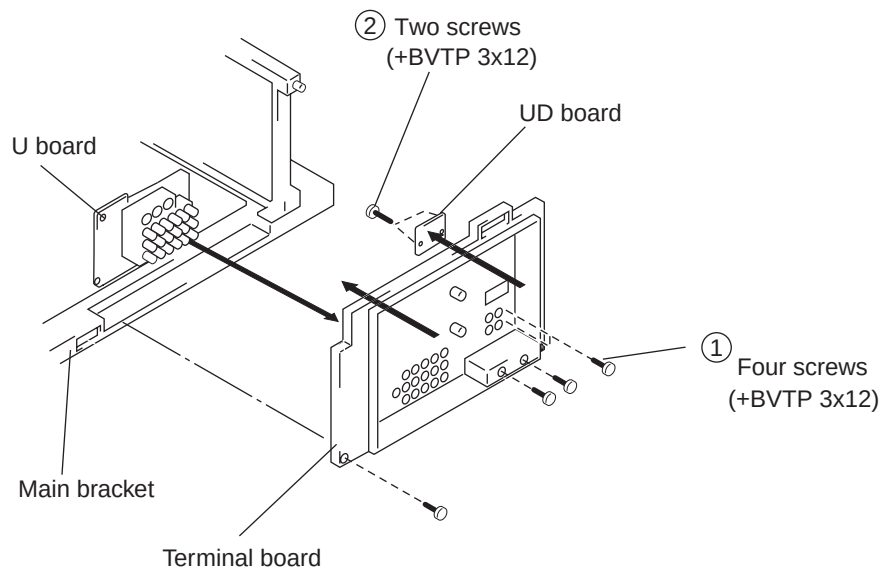
1-2. CHASSIS ASSEMBY REMOVAL



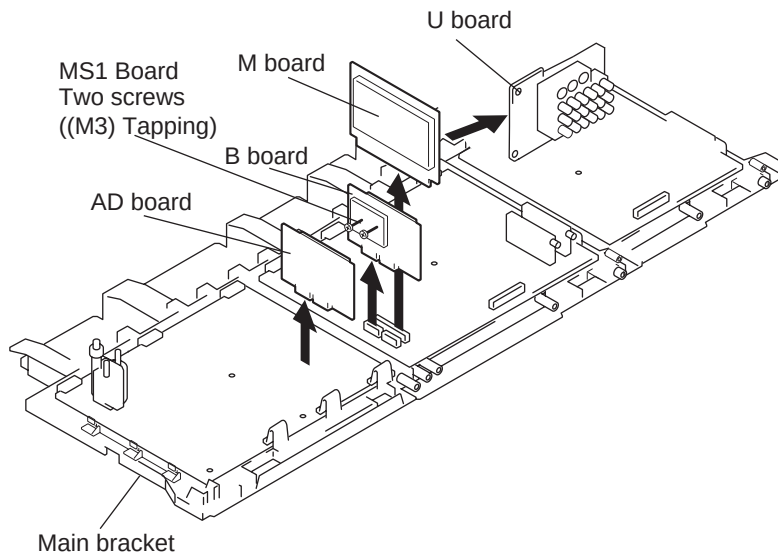
1-3. SERVICE POSITION



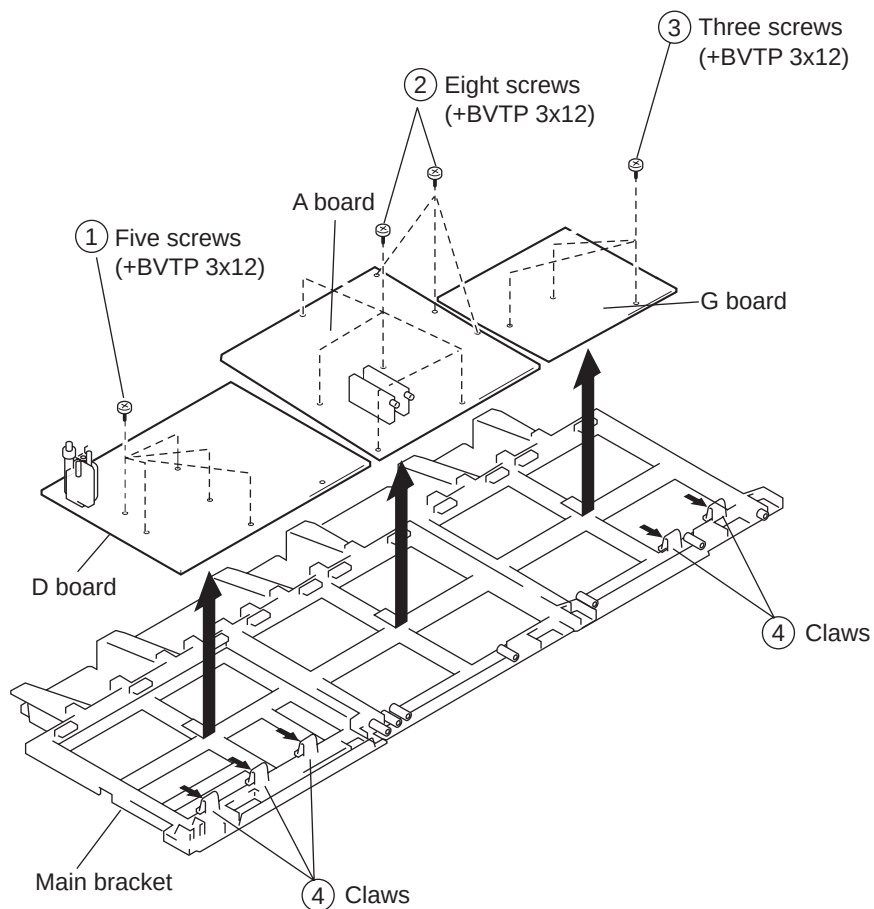
1-4. TERMINAL BOARD AND UD BOARD REMOVAL



1-5. AD BOARD, B BOARD, M BOARD, MS1 BOARD, AND U BOARD REMOVAL

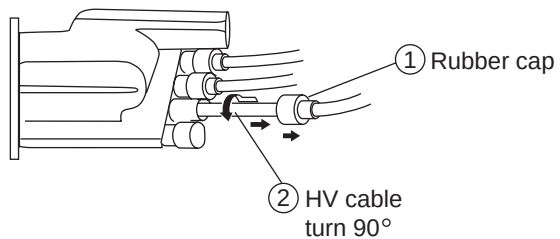


1-6. D BOARD, A BOARD, AND G BOARD REMOVAL

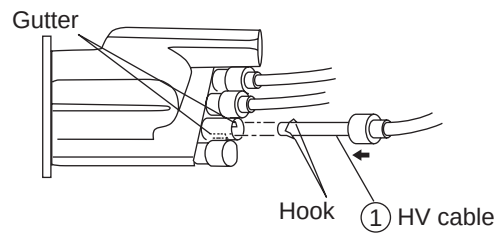


1-7. HIGH-VOLTAGE CABLE INSTALLATION AND REMOVAL

(1) Removal

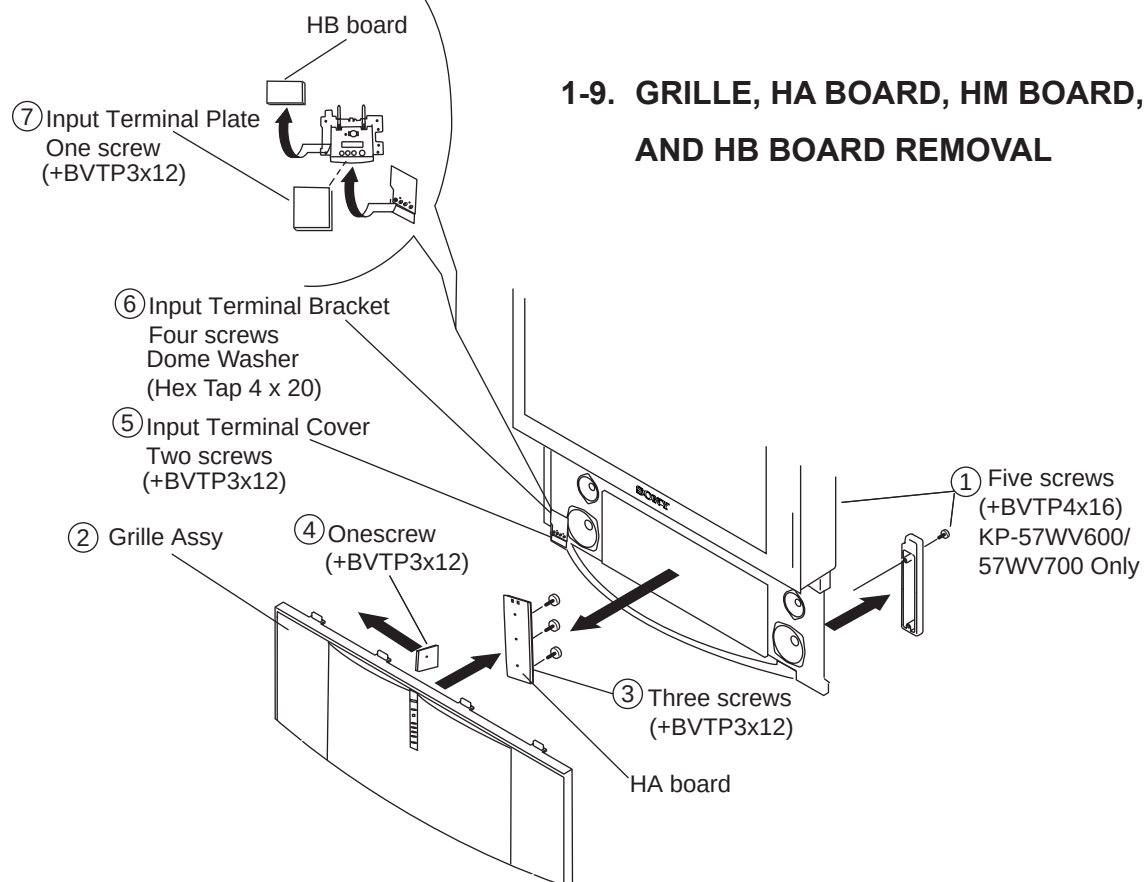
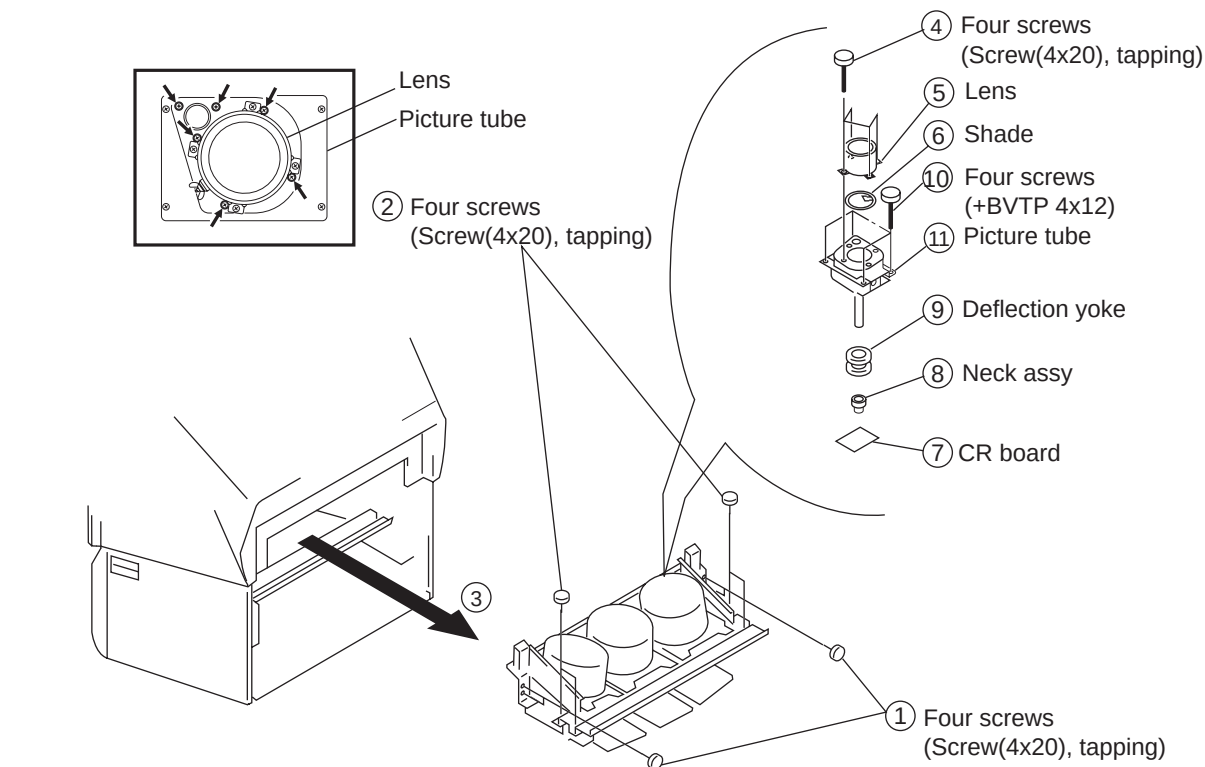


(2) Installation

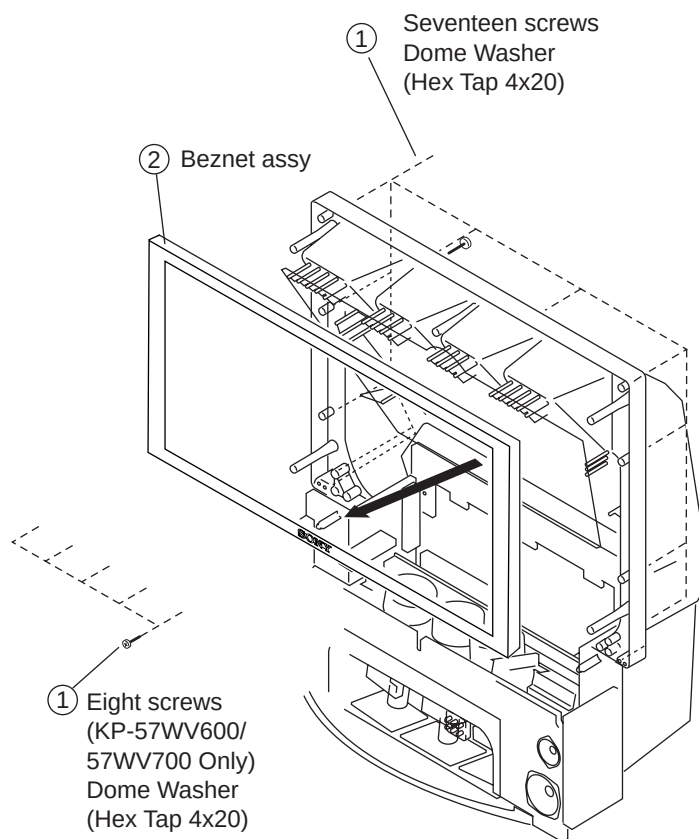


1-8. PICTURE TUBE REMOVAL

CAUTION: Removing the arrow-marked screws is strictly prohibited. If removed, it may cause liquid to spill.

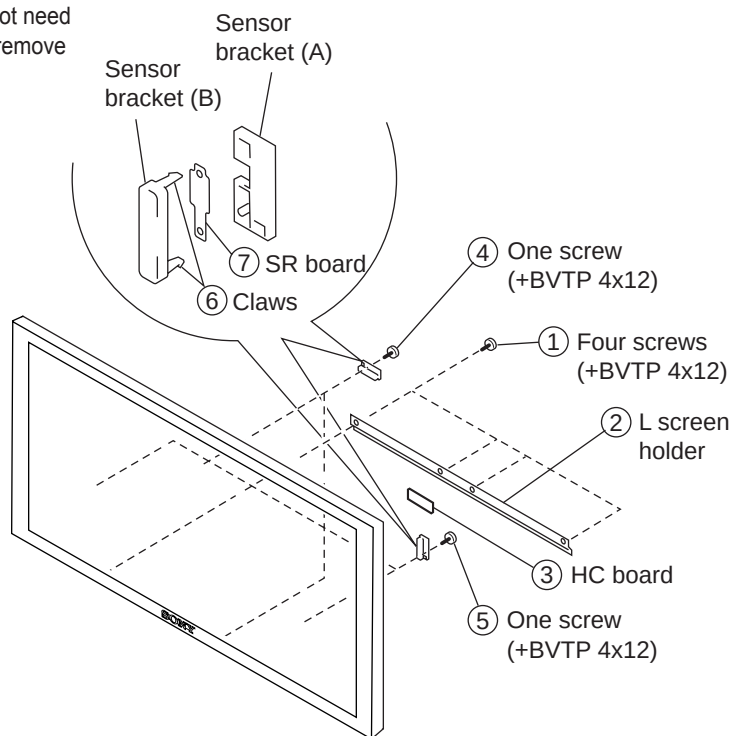


1-10.BEZNET ASSEMBLY REMOVAL

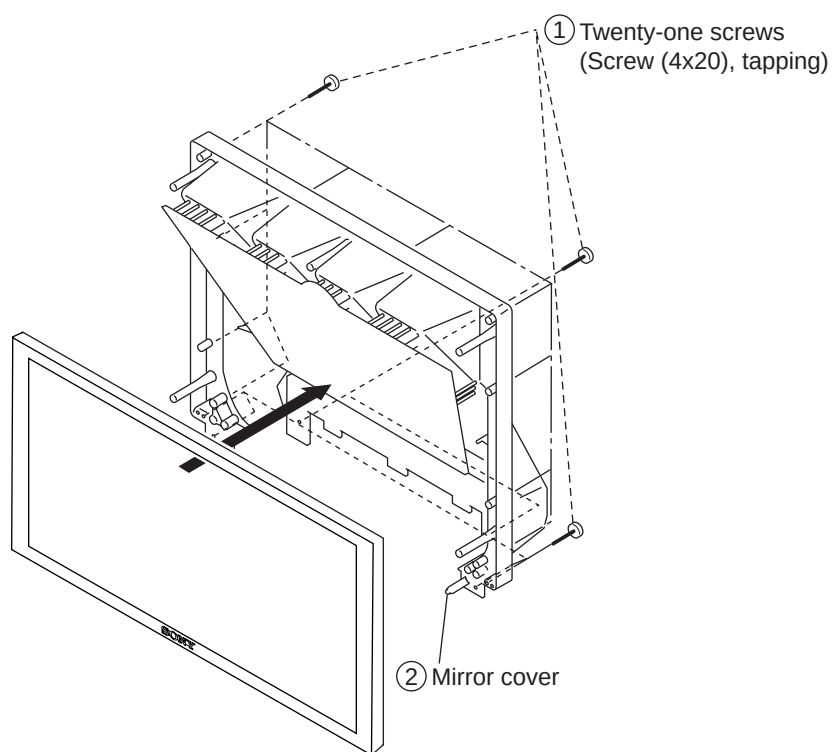


1-11.SR BOARD REMOVAL

The Screen Holder does not need to be removed in order to remove the SR boards.



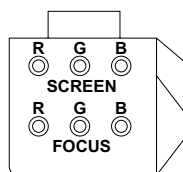
1-12.MIRROR COVER REMOVAL (KP-57WV600/57WV700 ONLY)



SECTION 2: SET-UP ADJUSTMENTS

2-1. SCREEN VOLTAGE ADJUSTMENT (G2) (COARSE ADJUSTMENT)

1. Receive the Monoscope signal..
2. Set BRIGHTNESS to 50% and PICTURE to minimum.
3. Turn the red VR on the focus block all the way to the left and then gradually turn it to the right until the retrace line is barely visible.
4. Gradually turn the control to the left until the retrace line disappears.

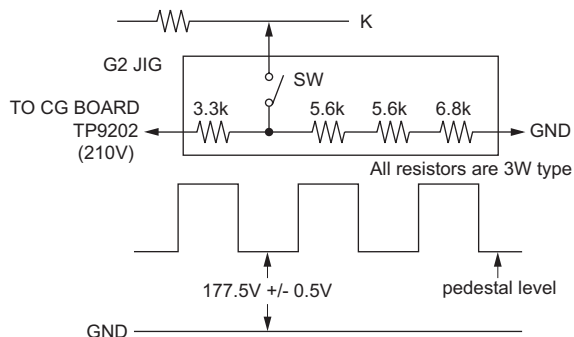


FOCUS Block

2-2. SCREEN (G2) ADJUSTMENT (FINE ADJUSTMENT)

If the jig described below is available, it is recommended that the G2 Fine Mode Adjustment be performed to set the screen controls to their optimal condition. If desired, you can build the jig illustrated below, using 3-watt resistors. Please note that if the proper voltage is not obtained with the listed resistor's values, then increase or decrease one of the values in the resistor network to obtain the correct voltage.

1. Select VIDEO-1 mode no signal applied (the screen must be black).
2. Connect the G2 JIG.
3. SW on JIG.
4. Connect an oscilloscope to the TP9101(KR), TP9201(KG) and TP9301(KB) of CR board, CG board, and CB board.
5. Adjust red, green, and blue screen voltage to $177.5 \pm 0.5V$ with screen VR on the focus block.

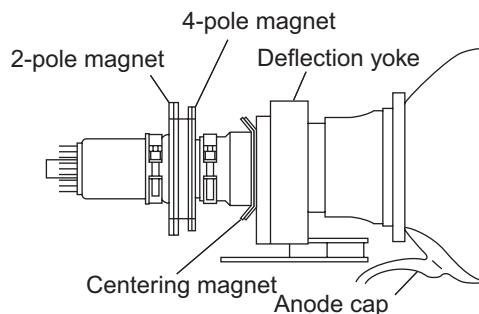


2-3. DEFLECTION YOKE TILT ADJUSTMENT

1. Connect the color bar generator monoscope patten to Video 1 input.
2. Cover the red and blue CRT lenses with lens caps to allow only green to show (or use the method shown in the note below for turning off the CRTs individually without using lens caps).
3. Loosen the CRT's deflection yoke set screw and align the tilt of the deflection yoke so that the horizontal bars at the center of the cross-hatch pattern are parallel to the top and bottom edges of the screen.
4. After aligning the deflection yoke fasten it securely to the funnel-shaped portion (neck) of the CRT.
5. Cover the green and blue CRT lenses with lens caps to allow only green to show (or use the method shown in the note below for turning off the CRTs individually without using lens caps), then repeat steps 3 and 4 for the red CRT.

Cover the green and red CRT lenses with lens caps o allow only green to show (or use the method shown in the note below for turning off the CRTs individually without using lens caps), then repeat steps 3 and 4 for the blue CRT.

Note: If lens caps are unavailable, you can cut off the unnecessary color beams by controlling the service mode 2170P-2 RGBS.

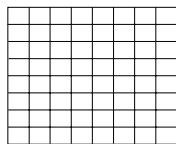


2-4. FOCUS LENS ADJUSTMENT

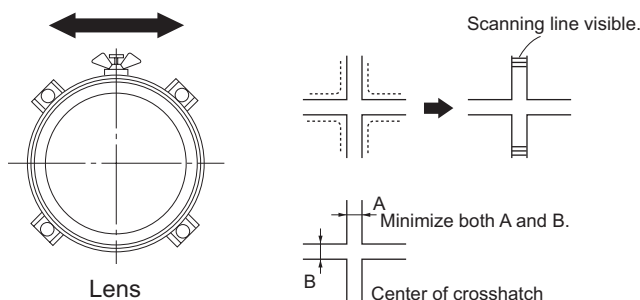
In this adjustment, use the remote commander while in service mode.
For details on the usage of the service mode and the remote commander, please refer to section 2-10. ELECTRICAL ADJUSTMENTS BY REMOTE COMMANDER.

1. Loosen the lens screw.
2. Cover the red and blue CRT lenses with lens caps to allow only green to show (or use the method shown in the note below for turning off the CRTs individually without using lens caps).
3. Turn the green lens to adjust to the optimum focus point with the crosshatch signal.
4. Tighten the lens screw.
5. Cover the green and blue CRT lenses with the lens caps to allow only red to show (or use the method shown in the note below for turning off the CRTs individually without using lens caps).
6. Turn the red lens to adjust to the optimum focus point with the crosshatch signal.
7. Tighten the lens screw.
8. Cover the green and red CRT lenses with the lens caps to allow only blue to show (or use the method shown in the note below for turning off the CRTs individually without using lens caps).
9. Turn the blue lens to adjust to the optimum focus point with the crosshatch signal.
10. Tighten the lens screw.
11. After adjusting the items:
 - 2-5. FOCUS VR ADJUSTMENT,
 - 2-6. 2-POLE MAGNET ADJUSTMENT,
 - 2-8. 4-POLE MAGNET ADJUSTMENT,
 reconfirm the optimum focus point and adjust again if necessary.

* In PJE mode, every time 6 is pressed, the test signal changes to:
"crosshatch+video signal" → "crosshatch+borderline(black)" →
"crosshatch(black)" → "dots(black)" → off



Test Signal

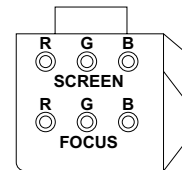


Note: If lens caps are unavailable, you can cut off the unnecessary color beams by controlling the service mode 2170P-2 1 RGBS.

2-5. FOCUS VR ADJUSTMENT

1. Set generator to crosshatch.
2. Cover the red and blue CRT lenses with lens caps to allow only green to show (or use the method shown in the note below for turning off the CRTs individually without using lens caps).
3. Turn the green focus VR on the focus block to adjust to the optimum focus point with the crosshatch signal.
4. Cover the green and blue picture lenses with lens caps to allow only red to show (or use the method shown in the note below for turning off the CRTs individually without using lens caps).
5. Turn the red focus VR on the focus block to adjust to the optimum focus point with the crosshatch signal.
6. Cover the green and red picture lenses with lens caps to allow only blue to show (or use the method shown in the note below for turning off the CRTs individually without using lens caps).
7. Turn the blue focus VR on the focus block to adjust to the optimum focus point with the crosshatch signal.
8. After adjusting the items:
 - 2-4. FOCUS LENS ADJUSTMENT,
 - 2-6. 2-POLE MAGNET ADJUSTMENT,
 - 2-8. 4-POLE MAGNET ADJUSTMENT,
 reconfirm the optimum focus point and adjust again if necessary.

Note: If lens caps are unavailable, you can cut off the unnecessary color beams by controlling the service mode 2170P-2 1 RGBS.

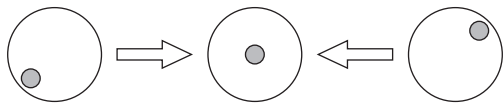


FOCUS Block

2-6. 2-POLE MAGNET ADJUSTMENT

1. Set the picture mode to PRO and picture to MAX.
2. Receive the Dot signal.
3. Cover the red and blue CRT lenses with lens caps to allow only green to show (or use the method shown in the note below for turning off the CRTs individually without using lens caps).
4. Turn the green focus VR on the focus block to the left (counter clockwise) and set it to overfocus to enlarge the spot.
5. Adjust the green CRT's 2-pole magnet so that the small bright spot is in the center.
6. Align the green focus VR on the focus block and set it for the best focus.
7. Repeat steps 1 through 6 for the red CRT except now you will cover the green and blue CRT lenses with lens caps to allow only red to show (or use the method shown in the note below for turning off the CRTs individually without using lens caps) and you will adjust the red focus control on the focus block.
8. Repeat steps 1 through 6 for the blue CRT except now you will cover the red and green CRT lenses with lens caps to allow only blue to show (or use the method shown in the note below for turning off the CRTs individually without using lens caps) and you will adjust the blue focus control on the focus block.

Note: If lens caps are unavailable, you can cut off the unnecessary color beams by controlling the service mode 2170P-2 1 RGBS.



2-7. CENTERING MAGNET ADJUSTMENT

1. Set the picture mode to PRO.
2. Receive the monoscope signal.
3. Cover the red and blue CRT lenses with lens caps to allow only green to show (or use the method shown in the note below for turning off the CRTs individually without using lens caps).
4. Adjust the green CRT's centering magnet to put the center of the monoscope signal to the center of the screen.
5. Repeat steps 1 through 4 for the red CRT except now you will cover the green and blue CRT lenses with lens caps to allow only red to show (or use the method shown in the note below for turning off the CRTs individually without using lens caps) and you will adjust the red centering magnet.
6. Repeat steps 1 through 4 for the blue CRT except now you will cover the red and green CRT lenses with lens caps to allow only blue to show (or use the method shown in the note below for turning off the CRTs individually without using lens caps) and you will adjust the blue centering magnet.

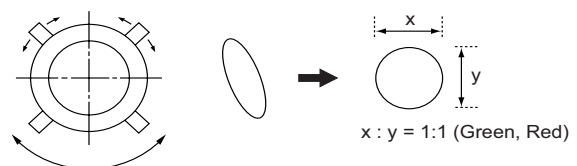
Note: If lens caps are unavailable, you can cut off the unnecessary color beams by controlling the service mode 2170P-2 1 RGBS.

2-8. 4-POLE MAGNET ADJUSTMENT

1. Set the picture mode to PRO and picture to MAX.
2. Receive the Dot signal.
3. Cover the red and blue CRT lenses with lens caps to allow only green to show (or use the method shown in the note below for turning off the CRTs individually without using lens caps).
4. Turn the (green) focus VR on the focus block to the right (clockwise) and set it to under-focus to reduce the spot.
5. Adjust the 4-pole magnet so that the small spot in the center of the screen becomes round for green and red.
6. Adjust the blue spot to an oval shape X:Y=1:1.2
7. Repeat steps 1 through 6 for the red CRT except now you will cover the green and blue CRT lenses with lens caps to allow only red to show (or use the method shown in the note below for turning off the CRTs individually without using lens caps) and you will adjust the red focus control on the focus block.
8. Repeat steps 1 through 6 for the blue CRT except now you will cover the red and green CRT lenses with lens caps to allow only blue to show (or use the method shown in the note below for turning off the CRTs individually without using lens caps) and you will adjust the blue focus control on the focus block.

Note: If lens caps are unavailable, you can cut off the unnecessary color beams by controlling the service mode 2170P-2 1 RGBS.

Use the center dot



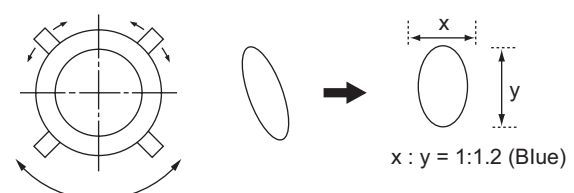
2-9. DEFOCUS ADJUSTMENT (BLUE)

Note: Adjust the blue dot to be slightly larger than red and green dots. This adjustment provides a more pleasing picture to the customer.

1. Set the picture mode to PRO.
2. Receive the Dot signal.
3. Cover the red and green CRT lenses with lens caps to allow only blue to show (or use the method shown in the note below for turning off the CRTs individually without using lens caps).
4. Turn the blue focus VR on the focus block to the right (clockwise) to make the round dot elliptical.
5. Check the flare with a high luminance signal to make sure the flare is minimal while the dot shape is elliptical.
6. Set the generator to an all white signal and check uniformity.

Note: If lens caps are unavailable, you can cut off the unnecessary color beams by controlling the service mode 2170P-2 1 RGBS.

Use the center dot



2-10.ELECTRICAL ADJUSTMENTS BY REMOTE COMMANDER

All of the circuit adjustments can be made by using the remote commander (RM-Y188).

NOTE : The following test equipment is required:

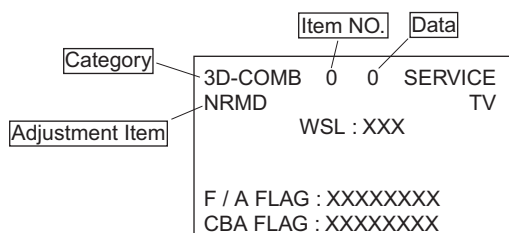
1. Pattern Generator (with component outputs)
2. Frequency counter
3. Digital multimeter
4. Audio oscillator

2-10-1.METHOD OF ENTERING THE SERVICE ADJUSTMENT MODE

SERVICE MODE PROCEDURE

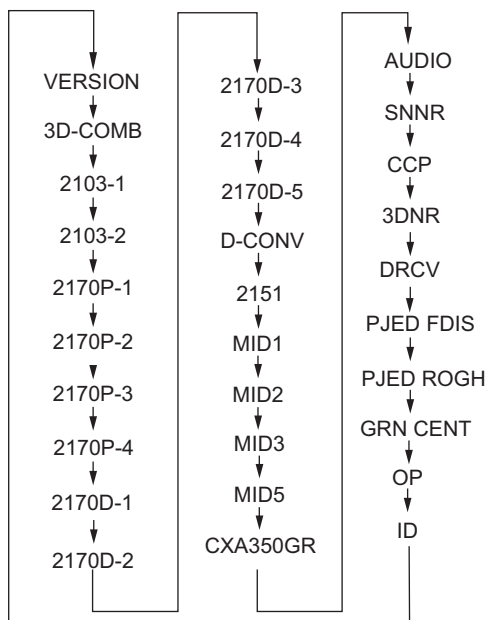
1. TV must be in Standby mode. (Power off)
2. Press "DISPLAY", "5", "VOL +", then "POWER" on the remote commander.
(Press each button within 1 second of pressing the previous button.)

SERVICE MODE ADJUSTMENT



3. The screen displays the item being adjusted within that category.
4. Press 1 or 4 on the remote commander to select the adjustment item
5. Press 3 or 6 on the remote commander to change the data
6. Press 2 or 5 on the remote commander to select the adjustment category

Every time you press 2(Category up), service mode changes in the order shown below:



7. If you want to go back to the most recently saved value, press "0" then "ENTER" to read the memory.
8. Press "MUTING" then "ENTER" to write the new adjustment data into memory.
9. Turn power off when you want to exit the service mode.

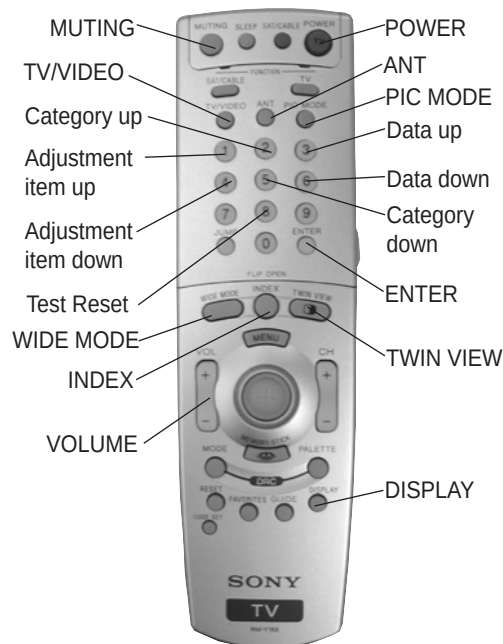
Note: Press "8" then "ENTER" on the remote commander to restore the factory settings for user controls and channel memories (this will also turn set off and then on to exit the service mode).

2-10-2.MEMORY WRITE CONFIRMATION METHOD

1. After adjustment, turn the power off with the remote commander.
2. Turn the power ON and set to service mode.
3. Cycle through the adjusted items again and confirm that the adjustments were saved.

2-10-3.ADJUSTING BUTTONS AND INDICATOR

Note: When the PJE mode (which displays an internally generated signal) is activated, several buttons on the remote commander will have different functions than the ones listed below. Therefore, when in the PJE mode, refer to section 2-12-3 for button functions.



RM-Y188

2-11 SERVICE DATA LISTS

CATEGORY	#	ITEM	DESCRIPTION	DATA									
VERSION	0	VER	Software version display	0									
	1	DMY1		255									
3DCOMB	0	NRMD	Noise Reduction Mode	0									
	1	CLKS	Forced Clock System	1									
	2	NSDS	Non-Standard/Standard Signal Processing	0									
	3	MSS	Frame / Line Processing	0									
	4	KILS	Color Killer Setting	1									
	5	FRZE	External Memory Test Bit	0									
	6	EXCS	External C Sync Input (CSI Pin)	1									
	7	CDL	C Signal Output Delay	3									
	8	DYCO	Y Motion Detection Coring	NRMD = 0	2	NRMD = 1	2	NRMD = 2	2	NRMD = 3	2		
	9	DYGA	Y Motion Detection Gain	NRMD = 0	10	NRMD = 1	10	NRMD = 2	10	NRMD = 3	10		
	10	DCCO	C Motion Detection Coring	NRMD = 0	5	NRMD = 1	5	NRMD = 2	5	NRMD = 3	5		
	11	DCGA	C Motion Detection Gain	NRMD = 0	5	NRMD = 1	5	NRMD = 2	5	NRMD = 3	5		
	12	WSC	Noise Detection Amount	1									
	13	WSS	Noise Detection Pre-Filter Type	0									
	14	VAPG	Vertical Apperture Gain	Vivid	0	Standard	0	Movie	0	Pro	0		
	15	VAPI	Vertical Apperture Convergence Point	Vivid	0	Standard	0	Movie	0	Pro	0		
	16	TEST	Test Bit	0									
	17	YPFT	Y Peaking BPF Center Frequency	RF	Vivid	3	Standard	3	Movie	3	Pro	3	
				V1-V4	Vivid	3	Standard	3	Movie	3	Pro	3	
				Twin	3								
	18	YPFG	Y Peaking BPF Gain	RF	Vivid	7	Standard	7	Movie	5	Pro	5	
				V1-V4	Vivid	5	Standard	5	Movie (WV600, ♥)	6	Pro	5	
				Twin	7								
	19	SEDC	C Detection High-Freq Sensitivity	0									
20	SEDY	Y Detection Low-Freq Sensitivity	1										
21	YHCO	Y Output High-Freq Coring	WV700 ♥		2								
			WV600 ♥		3								
22	YHCG	Y Output High-Freq Gain	0										
23	SYSP	System Power-down Mode	0										
24	TES2	Test Bits	0										

SERVICE DATA LISTS

CATEGORY	#	ITEM	DESCRIPTION	DATA											
CXA2103-1 Main YCT	0	YLEV	Y-out input/output gain	RF, V1-V4	17	Others	16								
	1	CLEV	CbCr input/output gain	RF, V1-V4	15	Others	21								
	2	SCON	Sub Contrast	V1-V4	9	Others	9								
	3	SCOL	Sub Color	V1-V4	2	Others	2								
	4	SHUE	Sub Hue	V1-V4	5	Others	11								
	5	YDLY	Y/C Delay	V1-V4	0	Others	0								
	6	SHAP	Sharpness level	V1-V4 (WV600)	11	V5, V6 (480i)	4	V7 (480i)	4	Others (WV600)	11				
				V1-V4 (WV700)	8					Others (WV700)	6				
	7	SHF0	Sharpness f0	V1-V4	0	V5, V6 (480i)	3	V7 (480i)	3	Others	0				
	8	PREO	Sharpness preshoot:overshoot ratio	V1-V4	3	V5, V6 (480i)	3	V7 (480i)	3	Others	3				
	9	BPF0	Chroma band-pass filter f0 setting	3											
	10	BPFQ	Chroma band-pass filter Q setting	0											
	11	BPSW	Chroma band-pass filter ON/OFF	V1-V4	0	Others	1								
	12	TRAP	Y block chroma trap ON/OFF	0											
	13	LPF	YCbCr output low-pass filter ON/OFF	1											
	14	AFCG	H block PLL loop gain	V1-V4	0	RF	1	Others	0						
	15	CDMD	V countdown system mode	V1-V4	3	RF	3	Others	3						
	16	SSMD	Sync separation circuit	V1-V4	0	RF	0	Others	0	No Signal / Blanking	3				
	17	HMSK	Macrovision signal masking ON/OFF	V1-V4	1	V5, V6 (480i)	1	V7 (480i)	0	Others	1				
	18	HALI	H automatic adjustment function	0											
	19	PPHA	Video and H TIM phase adjustment	V1-V4	7	V5, V6	7	V7 (480i)	7	Others	7				
	20	CBO1	Cb offset of Cb IN (pin 34) input	V5, V6 (480i)	36	Others	34								
	21	CRO1	Cr offset of Cr IN (pin 35) input	V5, V6 (480i)	38	Others	32								
	22	CBO2	Cb offset of DVI Cb (Pin 38) input	25											
	23	CRO2	Cr offset of the DVI Cr (Pin 39) input	27											
	24	ATPD	Auto-Pedestal Point (Data is applied to 2103-2 also)	Single Picture	0	Twin: 2170P-4:BLK = 0	0	Twin	1	3	Twin	0	Twin	0	
	25	DCTR	DC transmission ratio (Data is applied to 2103-2 also)	Single Picture	0	Twin 2170P-4:BLK = 0	0	Twin	1	2	3	Twin	0	Twin	0
CXA2103-2 Sub-YCT	0	YLEV	Y-out input/output gain	DRC*	14	VDO*	45								
	1	CLEV	CbCr input/output gain	DRC*	7	VDO*	25								
	2	SCON	Sub Contrast	V1-V4**	9	Others**	9								
	3	SCOL	Sub Color	V1-V4**	2	Others**	2								
	4	SHUE	Sub Hue	V1-V4**	5	Others**	11								
	5	YDLY	Y/C Delay	V1-V4**	0	Others**	0								
	6	SHAP	Sharpness level	V1-V4**	6	Others**	6								
	7	SHF0	Sharpness f0	V1-V4**	0	Others**	0								
	8	PREO	Sharpness preshoot:overshoot ratio	V1-V4**	3	Others**	3								
	9	BPF0	Chroma band-pass filter f0 setting	3											
	10	BPFQ	Chroma band-pass filter Q setting	0											
	11	BPSW	Chroma band-pass filter ON/OFF	V1-V4**	0	Others**	0								
	12	TRAP	Y block chroma trap ON/OFF	0											
	13	LPF	YCbCr output low-pass filter ON/OFF	DRC*	0	VDO*	0								
	14	AFCG	H block PLL loop gain	V1-V4**	0	Others**	1								
	15	CDMD	V countdown system mode	V1-V4**	3	Others**	3								
	16	SSMD	Sync separation circuit	V1-V4**	0	Others**	0								
	17	HMSK	Macrovision signal masking ON/OFF	V1-V4**	1	Others**	0								
	18	HALI	H auto adjustment function	0											
	19	PPHA	Video and H TIM phase adjustment	V1-V4**	7	Others**	7								
	20	CBO1	Cb offset of Cb IN (pin 34) input	29											
21	CRO1	Cr offset of Cr IN (pin 35) input	26												

Adjustable - M Board CBA

Adjustable - B Board CBA

Adjustable - On Line (STD LIST)

WV600 and WV700 are different

* DRC - Left picture of twin view is 480P, 720P, or 1080i input

* VDO - Left picture of twin view is 480i input

** Refers to the right picture of twin view

♣	Adjustable - M Board CBA
♦	Adjustable - B Board CBA
♠	Adjustable - On Line (STD LIST)
♥	WV600 and WV700 are different

WV600	WV700
-------	-------

* DRC - Left picture of twin view is 480P, 720P, or 1080i input
* VDO - Left picture of twin view is 480i input

** Refers to the right picture of twin view

♣	Adjustable - M Board CBA
♦	Adjustable - B Board CBA
♠	Adjustable - On Line (STD LIST)

SERVICE DATA LISTS

CATEGORY	#	ITEM	DESCRIPTION	DATA										
CXA2170P-1	0	YOSW	Y Offset Switch	RF, V1-4	1	480i (V5, V6)	0	HD (V5,V6)	0	MS	0	V7	1	
	1	TCOF		0										
				RF, V1-V4	V5-7 480i	V5/V6			V7			MS		
	2	YOF	Y offset	0	15	7	7	7	0	0	7			
	3	CBOF	Cb offset	44 ♣	44	44	47	44	40	41	34			
	4	CROF	Cr offset	44 ♣	44	44	47	44	42	42	34			
	5	SBRT	SUB brightness	Neutral Temp ♣	20	*SBRT is offset from adjust point (57WV700: +4, 65WV700: +6, 57WV600: +6, 65WV600: +4)								
	6	RDRV	R drive gain	Neutral Temp ♣	45									
	7	GDRV	G drive gain	Neutral Temp	30									
	8	BDRV	B drive gain	Neutral Temp ♣	34									
	9	RCUT	R cut-off	Neutral Temp ♣	41									
	10	GCUT	G cut-off	Neutral Temp	41									
	11	BCUT	B cut-off	Neutral Temp ♣	35									
	12	WBSW	White balance offset	Warm Temp	0	Cool Temp	0	Neutral Temp	0					
	13	SBOF	Sub brightness offset-ColorTemp.	Warm Temp	7	Cool Temp	7							
	14	RDOF	RDRV offset	Warm Temp	34	Cool Temp	34							
	15	GDOF	GDRV offset	Warm Temp	31	Cool Temp	31							
	16	BDOF	BDRV offset	Warm Temp	25	Cool Temp	34							
	17	RCOF	RCUT offset	Warm Temp	33	Cool Temp	32							
	18	GCOF	GCUT offset	Warm Temp	31	Cool Temp	31							
	19	BCOF	BCUT offset	Warm Temp	27	Cool Temp	45							
	20	DCOL	Dynamic Color for Cool	Cool Temp	2	Others	0							
CXA2170P-2	0	PICO	Picture+Ref.pulse on/off for G2 adj.	1										
	1	RGBS	RGB CRT ON/OFF combinations	7										
	2	BLKB	Bottom limiter level	0										
	3	RGBL	RGB limmiter level	2										
	4	YLMT	Y limiter level	2										
	5	AGNG	Black/White aging	0										
	6	AKBO	AKB on/off	0										
	7	CLPP	Clamp pulse phase	3										
	8	CLPG	Clamp gate on/off	0										
	9	CLPS	Clamp pulse start timing shift	0										
	10	PPAD	Picture Position	3										
	11	SYNP		0										
	12	HVBT		0										

♣	Adjustable - M Board CBA
♦	Adjustable - B Board CBA
♠	Adjustable - On Line (STD LIST)

* DRC - any 480i signal
* HD / VDO - any non-480i signal

SERVICE DATA LISTS

CATEGORY	#	ITEM	DESCRIPTION	DATA																
CXA2170P-3					RF	V1-V4				V5,V6				V7				MS	MS	
																Play	Menu	Twin		
WV600 Data	0	SYSM	Selects the signal bandwidth [0:NTSC, 1:FF, 2:HD, 3:DTV]	Vivid	1	1	1	1	3	3	1	1	3	3	1	3	3	2		
				Standard	1	1	1	1	3	3	1	1	3	3		3	3	2		
				Movie	1	1	1	1	3	3	1	1	3	3		3	3	2		
				Pro	1	2	1	1	3	3	1	1	3	3		3	3	2		
	1	VMLV	VM output level	7																
	2	VMCR	VM output coring level	Vivid	1	1	1	1	0	0	1	1	0	0	0	0	3	1		
				Standard	1	1	1	1	0	0	1	1	0	0		0	3	1		
				Movie	1	1	1	1	0	0	1	1	0	0		0	3	1		
				Pro	1	1	1	1	0	0	1	1	0	0		0	3	1		
	3	VMLM	VM limiter level	Vivid	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
				Standard	0	0	0	0	0	0	0	0	0	0		0	0	0		
				Movie	0	0	0	0	0	0	0	0	0	0		0	0	0		
				Pro	0	0	0	0	0	0	0	0	0	0		0	0	0		
	4	VMF0	VM output center frequency	Vivid	0	0	1	1	2	2	1	1	2	2	2	2	2	0		
				Standard	0	0	1	1	2	2	1	1	2	2		2	2	0		
				Movie	2	2	2	2	2	2	2	2	2	2		2	2	2		
				Pro	2	0	2	2	2	2	2	2	2	2		2	2	2		
	5	VMDL	VM output phase	Vivid	15	15	11	11	10	10	11	11	10	10	8	10	10	15		
				Standard	15	15	11	11	10	10	11	11	10	10		10	10	15		
				Movie	8	8	8	8	10	10	8	8	10	10		10	10	8		
				Pro	8	15	8	8	10	10	8	8	10	10		10	10	8		
	6	SHOF	Sharpness gain	Vivid	0	1	2	0	2	2	2	0	2	2	0	2	0	0		
				Standard	0	1	1	1	2	2	1	1	2	2		2	0	0		
				Movie	1	1	1	1	1	1	1	1	1	1		1	1	1		
Pro				0	0	0	0	0	0	0	0	0	0	0		0	0			
7	SHF0	Sharpness center frequency	Vivid	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
			Standard	1	1	1	1	1	1	1	1	1	1		1	1	1			
			Movie	1	1	1	1	1	1	1	1	1	1		1	1	1			
			Pro	1	1	1	1	1	1	1	1	1	1		1	1	1			
8	PROV	Pre-shoot / Over-shoot ratio	Vivid	3	3	3	3	3	3	3	3	3	3	3	3	3	2			
			Standard	3	3	3	3	3	3	3	3	3	3		3	3	2			
			Movie	3	3	3	3	3	3	3	3	3	3		3	3	2			
			Pro	3	3	3	3	3	3	3	3	3	3		3	3	2			

♥ WV600 and WV700 are different

● 65WV600 and 57WV600 different

SERVICE DATA LISTS

CATEGORY	#	ITEM	DESCRIPTION		RF	V1-V4	V5,V6				V7				VGA	MS		Twin
							480i	480P	1080i	720P	480i	480P	1080i	720P		Play	Menu	
CXA2170P-3	9	F1LV	Sharpness f1	Vivid	0	0	0	0	3	3	0	0	3	3	0	3	0	0
				Standard	0	0	0	0	3	3	0	0	3	3		3	0	0
				Movie	0	0	0	0	3	3	0	0	3	3		3	0	0
				Pro	0	0	0	0	3	3	0	0	3	3		3	0	0
	10	LTLV	LTI level	Vivid	3	3	3	3	3	3	3	3	3	3	0	3	3	3
				Standard	2	2	3	3	3	3	3	3	3	3		3	3	3
				Movie	1	1	1	1	1	1	1	1	1	1		1	1	1
				Pro	0	0	0	0	0	0	0	0	0	0		0	0	0
	11	LTMD	LTI mode [0:for B&W, 1:for Black]	Vivid	1	1	1	1	1	1	1	1	1	1	0	1	1	0
				Standard	1	1	1	1	1	1	1	1	1	1		1	1	0
				Movie	0	0	0	0	0	0	0	0	0	0		0	0	0
				Pro	1	1	1	1	1	1	1	1	1	1		1	1	0
	12	CTLV	CTI level [0:Off, 1:Low, 2:Mid, 3:High]	Vivid	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				Standard	0	0	0	0	0	0	0	0	0	0		0	0	0
				Movie	0	0	0	0	0	0	0	0	0	0		0	0	0
				Pro	0	0	0	0	0	0	0	0	0	0		0	0	0
	13	UBOF	User brightness offset BRIGHT=BRIGHT+UBOF*2	Vivid	4	2	4	4	2	2	4	4	2	2	3	2	2	4
				Standard	1	1	2	3	4	4	2	3	4	4		4	4	7
				Movie	0	0	3	3	3	3	3	3	3	3		3	3	2
				Pro	0	0	3	3	3	3	3	3	3	3		3	3	4
	14	UCOF	User color offset COLOR=COLOR+UCOF*2	Vivid	3	3	3	1	2	2	3	1	2	2	0	1	1	1
				Standard	1	2	1	1	0	0	0	0	0	0		0	0	0
				Movie	0	0	0	0	0	0	0	0	0	0		0	0	0
				Pro	0	0	0	0	0	0	0	0	0	0		0	0	0
	15	UHOF	User hue offset [0:HUE+0, 1:HUE+1, 2:HUE+2, 3:HUE+3]	Vivid	2	3	3	2	2	2	3	2	2	2	0	1	1	2
				Standard	1	0	1	0	1	1	1	0	1	1		1	1	0
				Movie	0	0	0	0	0	0	0	0	0	0		0	0	0
				Pro	0	0	0	0	0	0	0	0	0	0		0	0	0
	16	MIDE	MID Enhancement setting table	Vivid	7	12	17	22	27	32	17	22	27	32	1	27	27	57
				Standard	5	11	16	21	26	31	16	21	26	31		26	26	56
				Movie	3	10	15	24	25	30	15	24	25	30		25	25	55
				Pro	0	8	13	18	23	28	13	18	23	28		23	23	53
	17	VM	Initial VM [0:off, 1:Low, 2:Mid, 3:High]	Vivid	3	Standard	3	Movie	2	Pro								0
	18	VM_H	VM high level assignment	Vivid	15	Standard	15	Movie	12	Pro								15
	19	VM_M	VM mid level assignment	Vivid	10	Standard	10	Movie	8	Pro								10
	20	VM_L	VM low level assignment	Vivid	5	Standard	5	Movie	4	Pro								5
	21	VGAP			5													
	22	VGAS			0													
	23	VGAB			0													
	24	VGAC			0													
	25	VGAV			5													

♥ WV600 and WV700 are different
● 65WV600 and 57WV600 different

SERVICE DATA LISTS

CATEGORY	#	ITEM	DESCRIPTION	DATA																											
CXA2170P-4	0	YCON	Y signal gain	MS		0 Others				1																					
	1	SPIC	Sub picture	RF, V1-4, 480i(V5, V6)				14 HD* (V5, V6)		15 HD (V7)		15 MS		0																	
	2	SCOL	Sub color adjustment	RF, V1-4, 480i(V5, V6) ♦				34 HD* (V5, V6) ♦		36 HD (V7) ♦		34 MS ♦		31																	
	3	SHUE	Sub HUE adjustment	RF, V1-4, 480i(V5, V6) ♦				30 HD* (V5, V6) ♦		30 HD (V7) ♦		30 MS ♦		30																	
	4	SPIO	Sub picture offset	7 ♠		WV700 WV600		WV700 WV600		WV700 WV600		WV700 WV600																			
	5	SCLO	Sub color offset	7 ♠																											
	6	SHUO	Sub HUE offset	7 ♠																											
	7	UPIC	User Picture gain	Vivid		63		Standard		50 47		Movie		20 18		Pro		31													
	8	UBRT	User Brightness	Vivid		28 19		Standard		36 31		Movie		34 31		Pro		31													
	9	UCOL	User Color	Vivid		33		Standard		31		Movie		33		Pro		31													
	10	UHUE	User Hue	Vivid		31		Standard		31		Movie		31		Pro		31													
	11	USHP	User Sharpness	Vivid		29 25		Standard		29		Movie		23		Pro		31													
	12	UTMP	User Color Temp [0:Low, 1:Mid, 2:High, 3:Inhibit]	Vivid		2		Standard		1		Movie		0		Pro		1													
	13	R-YR	R-Y/R	8																											
	14	R-YB	R-Y/B	15																											
	15	G-YR	G-Y/R	9		RF		V5, V6				V7				MS		MS													
	16	G-YB	G-Y/B	6		V1-V4		480i		480P		1080i		720P		480i		480P		1080i		720P		VGA		Play		Menu		Twin	
	17	GAMM	Initial Gamma [0:Weak, 3:Strong]	Vivid		3 3		3		3		3		3		3		3		3		3		3		3		3		3	
				Standard		2 2		2		2		2		2		2		2		2		2		2		2		2		2	
				Movie		1 1		1		1		1		1		1		1		1		1		1		1		1		1	
				Pro		0 0		0		0		0		0		0		0		0		0		0		0		0		0	
	18	GAMS	GAM shape	GAMM = 0		0		GAMM = 1		7		GAMM = 2		7		GAMM = 3		7													
	19	GAMR	R output gamma	GAMM = 0		0		GAMM = 1		6 4		GAMM = 2		4 3		GAMM = 3		9 7													
	20	GAMG	G output gamma	GAMM = 0		0		GAMM = 1		6 4		GAMM = 2		4 3		GAMM = 3		9 7													
	21	GAMB	B output gamma	GAMM = 0		0		GAMM = 1		6 4		GAMM = 2		4 3		GAMM = 3		9 7													
	22	BLK	Initial black level	Vivid		3 3		3		3		3 3 3		3		3		3 3 3		3 3 3		3 3 3		3 3 3		3 3 3		3 3 3		1	
				Standard		2 1		1		1		1		1		1		1		1		1		1		1		1		1	
				Movie		0 0		0		0		0		0		0		0		0		0		0		0		0		0	
				Pro		0 0		0		0		0		0		0		0		0		0		0		0		0		0	
	23	DCTR	DC tran ratio	BLK = 0		0		BLK = 1		5 10		BLK = 2		8		BLK = 3		8 15													
	24	APED	Auto pedestal level	BLK = 0		0		BLK = 1		1 2		BLK = 2		1		BLK = 3		3													
	25	DSBO	Sub bright offset for UBLK [0:-7step, 15:+8st]	BLK = 0		7		BLK = 1		7		BLK = 2		7		BLK = 3		7													
	26	IDSW	ID Switch	0																											
	27	ABLM	ABL mode	BLK = 0		0		BLK = 1		0		BLK = 2		1		BLK = 3		1													
	28	ABLT	ABL threshold voltage	Single Picture		8		Others		8																					
	29	SPOF	Picture offset for Twin, Freeze, & Norm.	0																											
	30	DPSQ	Auto Pedestal black size inflection setting	BLK = 0		0		BLK = 1		0		BLK = 2		0		BLK = 3		0													
	31	LRGB	Picture gain control for LRGB (OSD RGB)	0																											

*HD = 480P, 720P, 1080i

♣

Adjustable - M Board CBA

♦

Adjustable - B Board CBA

♠

Adjustable - On Line (STD LIST)

♥

WV600 and WV700 are different

*HD = 480P, 720P, 1080i

Adjustable - M Board CBA
Adjustable - B Board CBA
Adjustable - On Line (STD LIST)
WV600 and WV700 are different

SERVICE DATA LISTS

CATEGORY	#	ITEM	DESCRIPTION	480P/960i				540P/1080i		
				WideZoom	Zoom	Full (Fav,Scroll)	Normal	Full (Twin, MS)		
CXA2170D-1	0	VPOS	Vertical Position	25 ▲						♣ Adjustable - M Board CBA ◆ Adjustable - B Board CBA ▲ Adjustable - On Line (STD LIST) * This data resides in the same location in NVM.
	1	VSIZ	Vertical Size	31 ▲						
	2	VSZO	V Size offset (PJ only)	0					≈0	
	3	VLIN	Vertical Linearity	5	5					
	4	VSCO	Vertical S-Correction	10	8					
	5	VCEN	Vertical Center	31						
	6	VPIN	Vertical Pin	15*			15	15*		
	7	MVPN	Vertical Middle Pin	0						
	8	NSCO	Rotation	31						
	9	HTPZ	Horizontal Trapezoid	15						
	10	MHTZ	Middle Horizontal Trapezoid	0						
	11	ZOOM	Zoom Switch	1	1	0				
	12	APSW	Aspect Switch	1	1	1	1	0		
	13	ASPT	Aspect Ratio	24	49	5	5	3		
	14	SCRL	Vertical Scroll	29	29	29	29	29		
	15	UVLN	Upper Vertical Linearity	4	0					
	16	LVLN	Lower Vertical Linearity	4	0					
CXA2170D-2	0	HCNT	Shading DC	19						
	1	HPOS	Horizontal Position	23					23	
	2	HSIZ	Horizontal Size	31 ▲	31 ▲					
	3	SLIN	Blue Offset DC	9 ▲	9 ▲					
	4	MPIN	Blue Offset Para-Amp	0	0					
	5	PIN	Horizontal Pin	10	10					
	6	PINO	Pin Off-Set (PJ only)	7	7	7	7	7		
	7	UCP	Upper Corner Pin	31	31					
	8	LCP	Lower Corner Pin	31	31					
	9	UXCG	Upper Extra Corner Pin Gain	0						
	10	LXCG	Lower Extra Corner Pin Gain	0						
	11	UXCP	Upper Extra Corner Pin Position	2						
	12	LXCP	Lower Extra Corner Pin Position	2						
	13	XCPP	Extra Corner Pin Polarity	0						
	14	PPHA	Pin Phase	31	31					
	15	VANG	AFC Angle	31						
	16	LANG	Shading Phase	31						
	17	VBOW	AFC Bow	31						
	18	LBOW	Shading Para Amp	48						

SERVICE DATA LISTS

CATEGORY	#	ITEM	DESCRIPTION	480P/960i				540P/1080i			
				WideZoom	Zoom	Full (Fav,Scroll)	Normal	Full (Twin, MS)			
CXA2170D-3	0	HBLK	Horizontal Blanking Switch	1							
	1	LBLK	Left Blanking	56					56		
	2	RBLK	Right Blanking	25					25		
	3	VBLK	Vertical Blanking Switch	0	0	1*	1	1*			
	4	TBLK	Top Blanking	7	7	4	4	4			
	5	BBLK	Bottom Blanking	7	7	8	8	6			
	6	AFCM	AFC Loop Gain	3					3		
	7	JUMP	Reference Pulse Jump Switch	0*			0	0*			
	8	VDJP	Vertical Drive Jump Switch	1	1	1		1			
	9	VDST	Vertical Drive Start Switch	0					0		
	10	AKBT	AKB Timing	9	9	9		9			
CXA2170D-4	0	QPAM	DQP amplitude LEVEL	17			17	17*	* This data resides in the same location in NVM.		
	1	QPAV	DQP amplitude VERTICAL MODULATION	31			31	31*			
	2	QPAP	DQP amplitude TILT	7			7	7*			
	3	QPDC	DQP DC level	20			20	20*			
	4	QPDV	DQP DC level VERTICAL MODULATION	60			60	60			
	5	QPDV	DQP DC level TILT	7			7	7*			
	6	CPY1	COPY FUNCTION (Full to Vcomp/normal)	0							
	7	DF	DF phase	31							
	8	DQP	DQP phase	31							
	9	DHMT	DH Board Mute	0							
CXA2170D-5	0	VFRQ	Vertical Frequency	1							
	1	VON	Vertical Drive On Switch	1							
	2	EWDC	Pin DC Level Shift	0							
	3	MS15	FH=15K @ MS Mode	0							
	4	HFRQ	Fh setting @multi-scan	80							
	5	HFRX	Reciprocal Fh @mult-scan	25							
	6	VMPS	Vertical Mult-scan Mode	0							
	7	INTR	Free-run Interlace Setting	0							
	8	VLNL	Vertical # of Lines (L)	0							
	9	VLNH	Vertical # of Lines (H)	0							
	10	AGCS	Vertical AGC Mode	0							
CXA2171	0	MTRX	Matrix	FRGB = 1	3 V5,V6,V7, no sync		1 Others	0		♣ Adjustable - M Board CBA ♠ Adjustable - B Board CBA ♣ Adjustable - On Line (STD LIST)	
	1	GAIN	Output gain for Video	0							
	2	FIXS	SYNC type	V5/V6 (480p, 720p, 1080i, No Sync)			0 V7 (480p, VGA, 720p, 1080i, No Sync)	0	Others		0
	3	CBGN	Output gain for Cb	5 ♣							
	4	CRGN	Output gain for Cr	5 ♣							
	5	YGN	Output gain for Y	5 ♣							
	6	VTC	V SYNC sep. time constant	0							
	7	HTC	H SYNC sep. time constant	Tri-level sync	0 Others	1					
	8	HWID	H SYNC width	1							
	9	HSEP	SYNC sep. type	1							
	10	HMSK	H SYNC MASK during V SYNC period	1080i	0 Others	1					
	11	FRGB	Matrix=3:RGB	V5/V6 (480p, 720p, 1080i, No Sync)			0 V7 (480p, VGA, 720p, 1080i, No Sync)	0	Others		0

SERVICE DATA LISTS

CATEGORY	#	ITEM	DESCRIPTION	DATA									
MID-1	0	DHPH	h active display area phase	H-resolution = 1920	106								
	1	DVPH	v active display area phase	H-resolution = 1920	20								
	2	DHAR	h active display area size	H-resolution = 1920	240								
	3	DVAR	v active display area size	H-resolution = 1920	135								
	4	DHPW	display h pulse width	H-resolution = 1920	55								
	5	DVPW	display v pulse width	H-resolution = 1920	5								
Common picture data	6	DYCD	display output yc signal delay correct	MID Mode = Single	Analog 480i	0	Analog Others	0					
				MID Mode = Twin	2								
				MID Mode = Memo	2								
				MID Mode = Favorite	2								
				MID Mode = Scroll / Index	2								
NOTE:													
All data listed data unless	7	DYSD	display output ys signal delay correct	Table 0	7	Table 1	4	Table 2	2	Table 3	1	Table = (2170P-3 SYSM) + (2170P-3 SHFO) - 1	
INITIALIZE:	8	MDHP	main display picture h position	H-resolution = 1920	Widemode = Normal	160	Widemode = Others	0					
	9	MDVP	main display picture v position	Input = 480i / 480P / VGA	Widemode = Others	30							
				Input = Others	0								
	10	MDHS	main display picture h size	H-resolution = 1920	Widemode = Normal	163	Widemode = Others	240					
	11	MDVS	main display picture v size	Input = 480i	120		Widemode = Others	120					
				Input = Others	135								
	12	MLHP	multi picture mode h position	MID Mode = Twin / Memo	43	MID Mode = Favorite	35	MID Mode = Scroll / Index	40				
	13	MLVP	multi picture mode v position	MID Mode = Twin / Memo	9	MID Mode = Favorite	30	MID Mode = Scroll / Index	29				
	14	SDHP	sub display picture h position	MID Mode = Favorite	167								
	15	SDVP	sub display picture v position	MID Mode = Favorite	6								
Display twin mode with one the other.	16	SDHS	sub display picture h size	MID Mode = Favorite	115								
	17	SDVS	sub display picture v size	MID Mode = Favorite	75								
	18	PDHP	PinP Large mode h position	0									
	19	PDVP	PinP Large mode v position	0									
	20	PDHS	PinP Large mode h size	0									
	21	PDVS	PinP Large mode v size	0									
	22	DPSW	display pll switch	MID Mode = Single, Input = 1080i	0	Others	0						
	23	MDLO	model select	12	MDLO Details ↓	0 ↓		1 ↓					
				Bit7	Not Used								
				Bit6	Not Used								
			Bit5	Scroll Sub-Picture (16:9 only)	4:3 Display	16:9 Display							
			Bit4	Memory-PLL Frequency	18.54...MHz	17.26...MHz							
			Bit3	ADC-PLL Select	Internal	External							
			Bit2	Frame On/Off (Twin)	Off	On							
			Bit1	Display Type (Scroll)	16:9 Model	4:3 Model							
			Bit0	Display Type (Twin, Memo)	16:9 Model	4:3 Model							
	24	BCOL	Background color y [0 = Black, 15 = White]	MID Mode = Single	Widemode = Normal	5	Widemode = Others	5					
				MID Mode = MS	5								
				MID Mode = Others	5								
	25	DYSS	display output ys signal type select	MID Mode = MS	3								
	26	OSDH	Index Sub-Picture OSD H position	MID Mode = Scroll / Index	32								
	27	OSDV	Index Sub-Picture OSD V position	MID Mode = Scroll / Index	16								

SERVICE DATA LISTS

MID MODE	SINGLE PICTURE	SERVICE DATA			
RF, V1-4 Full (Other)	MID2	MID2	0	DRHP	H Pos 117
		MID2	1	DRHS	H Size 178
		MID2	2	DRVP	V Pos 36
		MID2	3	DRVS	V Size 120
RF, V1-4 Normal	MID2	MID2	0	DRHP	H Pos 154
		MID2	1	DRHS	H Size 162
		MID2	2	DRVP	V Pos 37
		MID2	3	DRVS	V Size 120
480i, V5-7 Full (Other)	MID2	MID2	0	DRHP	H Pos 118
		MID2	1	DRHS	H Size 177
		MID2	2	DRVP	V Pos 37
		MID2	3	DRVS	V Size 120
480i, V5-7 Normal	MID2	MID2	0	DRHP	H Pos 154
		MID2	1	DRHS	H Size 161
		MID2	2	DRVP	V Pos 33
		MID2	3	DRVS	V Size 122
480P Full (Other)	MID3	MID3	0	VDHP	H Pos 147
		MID3	1	VDHS	H Size 240
		MID3	2	VDVE	V Pos 37
		MID3	3	VDVS	V Size 120
480P Normal	MID3	MID3	0	VDHP	H Pos 201
		MID3	1	VDHS	H Size 216
		MID3	2	VDVE	V Pos 44
		MID3	3	VDVS	V Size 116
720P	MID3	MID3	0	VDHP	H Pos 139
		MID3	1	VDHS	H Size 158
		MID3	2	VDVE	V Pos 25
		MID3	3	VDVS	V Size 179

MID MODE	SINGLE PICTURE	SERVICE DATA			
1080i	MID3	MID3	0	VDHP	H Pos 100
		MID3	1	VDHS	H Size 240
		MID3	2	VDVE	V Pos 18
		MID3	3	VDVS	V Size 135
VGA Full (Other)	MID3	MID3	0	VDHP	H Pos 167
		MID3	1	VDHS	H Size 228
		MID3	2	VDVE	V Pos 36
		MID3	3	VDVS	V Size 119
VGA Normal	MID3	MID3	0	VDHP	H Pos 213
		MID3	1	VDHS	H Size 207
		MID3	2	VDVE	V Pos 38
		MID3	3	VDVS	V Size 118

SERVICE DATA LISTS

MID MODE TWIN PICTURE		SERVICE DATA			
RF, V1-4	RF, V1-4	MID2	0	DRHP	H Pos 145
		MID2	1	DRHS	H Size 165
		MID2	2	DRVP	V Pos 58
		MID2	3	DRVS	V Size 110
MID2	MID3	MID3	0	VDHP	H Pos 74
		MID3	1	VDHS	H Size 165
		MID3	2	VDVE	V Pos 25
		MID3	3	VDVS	V Size 56
480i (V5-7)		MID2	0	DRHP	H Pos 144
		MID2	1	DRHS	H Size 164
		MID2	2	DRVP	V Pos 44
		MID2	3	DRVS	V Size 117
MID2		MID2	0	DRHP	H Pos 153
		MID2	1	DRHS	H Size 165
		MID2	2	DRVP	V Pos 58
		MID2	3	DRVS	V Size 110
480P	RF, V1-4	MID3	0	VDHP	H Pos 188
		MID3	1	VDHS	H Size 220
		MID3	2	VDVE	V Pos 60
		MID3	3	VDVS	V Size 108
MID3	MID2	MID3	0	VDHP	H Pos 160
		MID3	1	VDHS	H Size 148
		MID3	2	VDVE	V Pos 55
		MID3	3	VDVS	V Size 165
720P		MID3	0	VDHP	H Pos 141
		MID3	1	VDHS	H Size 221
		MID3	2	VDVE	V Pos 41
		MID3	3	VDVS	V Size 124
MID3		MID3	0	VDHP	H Pos 198
		MID3	1	VDHS	H Size 213
		MID3	2	VDVE	V Pos 54
		MID3	3	VDVS	V Size 111

MID MODE FREEZE		SERVICE DATA			
RF, V1-4	FREEZE	MID2	0	DRHP	H Pos 146
		MID2	1	DRHS	H Size 164
		MID2	2	DRVP	V Pos 58
		MID2	3	DRVS	V Size 110
MID2		MID2	0	DRHP	H Pos 145
		MID2	1	DRHS	H Size 163
		MID2	2	DRVP	V Pos 44
		MID2	3	DRVS	V Size 117
480i (V5-7)	FREEZE	MID3	0	VDHP	H Pos 188
		MID3	1	VDHS	H Size 219
		MID3	2	VDVE	V Pos 62
		MID3	3	VDVS	V Size 107
MID2		MID3	0	VDHP	H Pos 161
		MID3	1	VDHS	H Size 147
		MID3	2	VDVE	V Pos 54
		MID3	3	VDVS	V Size 165
480P	FREEZE	MID3	0	VDHP	H Pos 142
		MID3	1	VDHS	H Size 220
		MID3	2	VDVE	V Pos 43
		MID3	3	VDVS	V Size 123
MID3		MID3	0	VDHP	H Pos 204
		MID3	1	VDHS	H Size 210
		MID3	2	VDVE	V Pos 60
		MID3	3	VDVS	V Size 108
720P	FREEZE	MID3	0	VDHP	H Pos 142
		MID3	1	VDHS	H Size 220
		MID3	2	VDVE	V Pos 43
		MID3	3	VDVS	V Size 123
MID3		MID3	0	VDHP	H Pos 142
		MID3	1	VDHS	H Size 220
		MID3	2	VDVE	V Pos 43
		MID3	3	VDVS	V Size 123
1080i	FREEZE	MID3	0	VDHP	H Pos 142
		MID3	1	VDHS	H Size 220
		MID3	2	VDVE	V Pos 43
		MID3	3	VDVS	V Size 123
MID3		MID3	0	VDHP	H Pos 142
		MID3	1	VDHS	H Size 220
		MID3	2	VDVE	V Pos 43
		MID3	3	VDVS	V Size 123
VGA	FREEZE	MID3	0	VDHP	H Pos 204
		MID3	1	VDHS	H Size 210
		MID3	2	VDVE	V Pos 60
		MID3	3	VDVS	V Size 108
MID3		MID3	0	VDHP	H Pos 204
		MID3	1	VDHS	H Size 210
		MID3	2	VDVE	V Pos 60
		MID3	3	VDVS	V Size 108

SERVICE DATA LISTS

MID MODE	FAVORITE CHANNEL	SERVICE DATA			
RF, V1-4	FAV	MID2	0	DRHP	H Pos 146
		MID2	1	DRHS	H Size 165
		MID2	2	DRVP	V Pos 37
		MID2	3	DRVS	V Size 120
		MID3	0	VDHP	H Pos 76
		MID3	1	VDHS	H Size 169
		MID3	2	VDVE	V Pos 20
		MID3	3	VDVS	V Size 57
480i (V5-7)	FAV	MID2	0	DRHP	H Pos 145
		MID2	1	DRHS	H Size 163
		MID2	2	DRVP	V Pos 22
		MID2	3	DRVS	V Size 128
		MID3	0	VDHP	H Pos 76
		MID3	1	VDHS	H Size 172
		MID3	2	VDVE	V Pos 20
		MID3	3	VDVS	V Size 57
480P	FAV	MID2	0	DRHP	H Pos 154
		MID2	1	DRHS	H Size 172
		MID2	2	DRVP	V Pos 39
		MID2	3	DRVS	V Size 115
		MID3	0	VDHP	H Pos 187
		MID3	1	VDHS	H Size 219
		MID3	2	VDVE	V Pos 37
		MID3	3	VDVS	V Size 120
720P	FAV	MID3	0	VDHP	H Pos 157
		MID3	1	VDHS	H Size 148
		MID3	2	VDVE	V Pos 60
		MID3	3	VDVS	V Size 162
1080i	FAV	MID3	0	VDHP	H Pos 134
		MID3	1	VDHS	H Size 222
		MID3	2	VDVE	V Pos 45
		MID3	3	VDVS	V Size 122
VGA	FAV	MID3	0	VDHP	H Pos 200
		MID3	1	VDHS	H Size 211
		MID3	2	VDVE	V Pos 39
		MID3	3	VDVS	V Size 118

MID MODE	CHANNEL INDEX	SERVICE DATA			
RF, V1-4	INDEX	MID2	0	DRHP	H Pos 146
		MID2	1	DRHS	H Size 164
		MID2	2	DRVP	V Pos 36
		MID2	3	DRVS	V Size 120
		MID3	0	VDHP	H Pos 71
		MID3	1	VDHS	H Size 167
		MID3	2	VDVE	V Pos 24
		MID3	3	VDVS	V Size 57
480i (V5-7)	INDEX	MID2	0	DRHP	H Pos 145
		MID2	1	DRHS	H Size 163
		MID2	2	DRVP	V Pos 21
		MID2	3	DRVS	V Size 128
480P	INDEX	MID2	0	DRHP	H Pos 144
		MID2	1	DRHS	H Size 167
		MID2	2	DRVP	V Pos 50
		MID2	3	DRVS	V Size 114
720P	INDEX	MID3	0	VDHP	H Pos 185
		MID3	1	VDHS	H Size 220
		MID3	2	VDVE	V Pos 44
		MID3	3	VDVS	V Size 116
1080i	INDEX	MID3	0	VDHP	H Pos 138
		MID3	1	VDHS	H Size 221
		MID3	2	VDVE	V Pos 45
		MID3	3	VDVS	V Size 122
VGA	INDEX	MID3	0	VDHP	H Pos 200
		MID3	1	VDHS	H Size 211
		MID3	2	VDVE	V Pos 38
		MID3	3	VDVS	V Size 118

SERVICE DATA LISTS

CATEGORY	#	ITEM	DESCRIPTION	Register	Approx NVM addr	MID Mode		DATA								
MID-3																
VDO input data	4	VDVO	VDO input V active area line size	vdo_vactv_od	A8 00 80	1080i	0	720p	0	480p	0	VGA	0			
	5	VCPO	VDO input V active area odd position			1080i	72	720p	88	480p	122	VGA	122			
	6	VCWD	VDO input clamp pulse output timing			1080i	3	720p	3	480p	3	VGA	3			
	7	VYCD	VDO input clamp pulse width			1080i	0	720p	0	480p	0	VGA	0			
	8	VSTP	VDO input PLL phase detect stop line count			1080i	137	720p	183	480p	129	VGA	129			
	9	VSTT	VDO input PLL phase detect start line cnt			1080i	0	720p	0	480p	0	VGA	0			
	10	VHSC	VDO input H sync cycle			YC, all 480 inputs		130								
	11	VFRV	vdo_fid_rev			YC	0	480i	0	1080i	0	720p	0	480p	0	VGA

CATEGORY	#	ITEM	DESCRIPTION			DATA ▼ WV600 and WV700 are different												
MID-5						POP Table Select (Based on 2170:MIDE setting)												
						0	1	2	3	4	5	6	7	8	9	10	11	12
TO INITIALIZE: Display twin mode with one side larger than the other. Enter service. "7" + "JUMP" + "ENTER" Wait until pics become same size. WRITE.	1	MHLY	m_hlpf_ycoef		WV600 ▼ WV700 ▼	1 2	2	1	2	1	1 2	1	1 2	1	3	1	1	1
	2	MHLC	m_hlpf_ccoef			3	0	3	3	3	3	3	3	3	3	3	3	3
	3	MVLY	m_vlpf_ycoef			0	0	0	0	0	0	0	0	0	1	0	0	0
	4	MVLC	m_vlpf_ccoef			0	0	0	0	0	0	0	0	0	1	0	0	0
	5	MHYR	m_henh_ycore		WV600 ▼ WV700 ▼	0 0	0	1	0	2	3	3	3	0	0	0	1 2	1 2
	6	MHYL	m_henh_yclip		WV600 ▼ WV700 ▼	0 0	0	1	0	1	1 2	2	1 2	0	0	0	1 2	1 2
	7	MHYE	m_henh_yenh		WV600 ▼ WV700 ▼	0 0	0	5	0	6	0 7	7	0 7	0	0	0	7 4	7
	8	MHYO	m_henh_ycof			1	0	1	1	1	1	1	1	1	0	1	1	1
	9	MHCR	m_henh_ccore			0	0	0	0	0	0	0	0	0	0	0	0	0
	10	MHCL	m_henh_cclip			0	0	0	0	0	0	0	0	0	0	0	0	0
	11	MHCE	m_henh_cenh			0	0	0	0	0	0	0	0	0	0	0	0	0
	12	MHCO	m_henh_ccof			1	0	0	1	0	0	0	0	0	0	0	0	0
	13	MVYR	m_venh_ycore		WV600 ▼ WV700 ▼	0 0	0	0	0	1	2	2	3 2	0	0	0	1 2	1 3
	14	MVYL	m_venh_yclip			0	0	0	0	1	1	1	1	0	0	0	1	1
	15	MVYE	m_venh_yenh		WV600 ▼ WV700 ▼	0 0	0	0	0	1	5 3	3	5 3	0	0	0	5 3	5 3
	16	MVCR	m_venh_ccore			0	0	0	0	0	0	0	0	0	0	0	0	0
	17	MVCL	m_venh_cclip			0	0	0	0	0	0	0	0	0	0	0	0	0
	18	MVCE	m_venh_cenh			0	0	0	0	0	0	0	0	0	0	0	0	0

SERVICE DATA LISTS

CATEGORY	#	ITEM	DESCRIPTION			DATA ▼ WV600 and WV700 are different																		
MID-5 TO INITIALIZE: Display twin mode with one side larger than the other. Enter service. "7" + "JUMP" + "ENTER" Wait until pics become same size. WRITE.						POP Table Select (Based on 2170:MIDE setting)																		
						13	14	15	16	17	18	19	20	21	22	23	24	25						
	1	MHLY	m_hlpf_ycoef			2	3	2	2	2	1	3	1	1	1	0	1	0						
	2	MHLC	m_hlpf_ccoef			3	3	3	3	3	3	3	3	3	3	2	3	2						
	3	MVLY	m_vlpf_ycoef			0	1	0	0	0	0	1	0	0	0	0	0	0						
	4	MVLC	m_vlpf_ccoef			0	1	0	0	0	0	1	0	0	0	0	0	0						
	5	MHYR	m_henh_ycore		WV600 ▼ WV700 ▼	0	0	0	1	1 3	0	0	1	1 2	3	0	0	0						
	6	MHYL	m_henh_yclip		WV600 ▼ WV700 ▼	0	0	0	2	1	0	0	1	1 2	1	0	0	0						
	7	MHYE	m_henh_yenh		WV600 ▼ WV700 ▼	0	0	0	7 2	7	0	0	7	4 0	0	0	0	0						
						0	0	0	1	1	0	1	1	1	1	1	1	1						
	9	MHCR	m_henh_ccore			0	0	0	2	2	0	0	0	0	2	0	0	0						
	10	MHCL	m_henh_cclip			0	0	0	0	0	0	0	0	0	0	0	0	0						
	11	MHCE	m_henh_cenh			0	0	0	0	0	0	0	0	0	0	0	0	0						
	12	MHCO	m_henh_ccof			0	0	0	1	1	1	0	0	1	1	1	1	1						
	13	MVYR	m_venh_ycore		WV600 ▼ WV700 ▼	0	0	0	1	1	0	0	0	1 2	1 2	0	0	0						
	14	MVYL	m_venh_yclip			0	0	0	1	1	0	0	1	1	1	0	0	0						
	15	MVYE	m_venh_yenh		WV600 ▼ WV700 ▼	0	0	0	5 3	7 5	0	0	3	5 3	7 5	0	0	0						
	16	MVCR	m_venh_ccore	m_venh_ccore		0	0	0	2	2	0	0	0	0	2	0	0	0						
17	MVCL	m_venh_cclip	m_venh_cclip		0	0	0	0	0	0	0	0	0	0	0	0	0							
18	MVCE	m_venh_cenh	m_venh_cenh		0	0	0	0	0	0	0	0	0	0	0	0	0							
NOTE: All data listed here is INITIAL data unless marked by *.						POP Table Select																		
						26	27	28	29	30	31	32	33	34	35	36	37	38						
	1	MHLY	m_hlpf_ycoef			0	0	0	3	0	0	0	1	3	1	1	1	1						
	2	MHLC	m_hlpf_ccoef			2	2	0	3	0	0	0	3	3	3	3	3	3						
	3	MVLY	m_vlpf_ycoef			0	0	0	1	0	0	0	0	1	0	0	0	0						
	4	MVLC	m_vlpf_ccoef			0	0	0	1	0	0	0	0	1	0	0	0	0						
	5	MHYR	m_henh_ycore			2	2	0	0	0	1	3	0	0	1	1	1	1						
	6	MHYL	m_henh_yclip			1	1	0	0	0	1	1	0	0	1	2	2	1						
	7	MHYE	m_henh_yenh			5	5	0	0	4	7	4	0	0	2	2	7	7						
	8	MHYO	m_henh_ycof			1	1	1	0	1	1	1	1	0	1	1	1	1						
	9	MHCR	m_henh_ccore			2	3	0	0	0	1	3	0	0	0	0	0	0						
	10	MHCL	m_henh_cclip			2	2	0	0	0	2	2	0	0	0	0	0	0						
	11	MHCE	m_henh_cenh			2	2	0	0	0	2	2	0	0	0	0	0	0						
	12	MHCO	m_henh_ccof			1	1	1	0	1	1	1	0	0	0	0	0	0						
	13	MVYR	m_venh_ycore			2	2	0	0	0	1	3	0	0	1	1	2	0						
	14	MVYL	m_venh_yclip			1	1	0	0	0	1	1	0	0	1	1	1	0						
	15	MVYE	m_venh_yenh			3	7	0	0	0	4	3	0	0	5	7	5	0						
	16	MVCR	m_venh_ccore			2	3	0	0	0	1	3	0	0	0	0	0	0						
17	MVCL	m_venh_cclip			1	1	0	0	0	1	1	0	0	0	0	0	0							
18	MVCE	m_venh_cenh			2	3	0	0	0	4	3	0	0	0	0	0	0							

SERVICE DATA LISTS

CATEGORY	#	ITEM	DESCRIPTION			DATA												
MID-5						POP Table Select												
						39	40	41	42	43	44	45	46	47	48	49	50	51
NOTE:	1	MHLY	m_hlpf_ycoef			3	1	1	1	0	3	0	0	0	0	0	0	0
All data listed	2	MHLC	m_hlpf_ccoef			3	3	3	3	0	3	0	0	0	0	0	0	0
here is INITIAL	3	MVLY	m_vlpf_ycoef			1	0	0	0	0	1	0	0	0	0	0	0	0
data unless	4	MVLC	m_vlpf_ccoef			1	0	0	0	0	1	0	0	0	0	0	0	0
marked by *.	5	MHYR	m_henh_ycore			0	0	1	1	1	0	0	0	0	0	0	0	0
	6	MHYL	m_henh_yclip			0	1	2	2	1	0	1	1	1	1	1	1	1
TO	7	MHYE	m_henh_yenh			0	3	2	7	2	0	4	7	7	2	2	4	7
INITIALIZE:	8	MHYO	m_henh_ycof			0	1	1	1	0	0	0	0	0	0	0	0	0
Display twin	9	MHCR	m_henh_ccore			0	0	0	0	0	0	0	1	1	0	0	0	1
mode with one	10	MHCL	m_henh_cclip			0	0	0	0	0	0	0	1	1	0	0	0	1
side larger than	11	MHCE	m_henh_cenh			0	0	0	0	0	0	0	4	4	0	0	0	4
the other.	12	MHCO	m_henh_ccof			0	0	0	0	0	0	0	1	1	0	0	0	1
Enter service.	13	MVYR	m_venh_ycore			0	1	1	1	0	0	0	0	0	0	0	0	0
"7" + "JUMP"	14	MVYL	m_venh_yclip			0	1	1	1	0	0	1	1	1	0	0	1	1
+ "ENTER"	15	MVYE	m_venh_yenh			0	4	7	5	0	0	4	4	4	0	0	4	4
Wait until pics	16	MVCR	m_venh_ccore			0	0	0	0	0	0	0	1	1	0	0	0	1
become same	17	MVCL	m_venh_cclip			0	0	0	0	0	0	0	1	1	0	0	0	1
size. WRITE.	18	MVCE	m_venh_cenh			0	0	0	0	0	0	0	4	4	0	0	0	4

SERVICE DATA LISTS

CATEGORY	#	ITEM	DESCRIPTION			DATA																		
MID-5 NOTE: All MID data here is INITIAL data unless marked by *.						POP Table Select																		
						52	53	54	55	56	57	58	59	60	61	62	63	64						
	1	MHLY	m_hlpf_ycoef			0	0	0	0	0	0	0	0	0	0	0	0	0						
	2	MHLC	m_hlpf_ccoef			0	0	0	0	0	0	0	0	0	0	0	0	0						
	3	MVLY	m_vlpf_ycoef			0	0	0	0	0	0	0	0	0	0	0	0	0						
	4	MVLC	m_vlpf_ccoef			0	0	0	0	0	0	0	0	0	0	0	0	0						
	5	MHYR	m_henh_ycore			0	0	0	0	0	0	0	0	0	0	0	0	0						
	6	MHYL	m_henh_yclip			1	0	0	0	0	0	0	0	0	0	0	0	0						
	7	MHYE	m_henh_yenh			7	0	0	0	0	0	0	0	0	0	0	0	0						
	8	MHYO	m_henh_ycof			0	0	0	0	0	0	0	0	0	0	0	0	0						
	9	MHCR	m_henh_ccore			1	0	0	0	0	0	0	0	0	0	0	0	0						
	10	MHCL	m_henh_cclip			1	0	0	0	0	0	0	0	0	0	0	0	0						
	11	MHCE	m_henh_cenh			4	0	0	0	0	0	0	0	0	0	0	0	0						
	12	MHCO	m_henh_ccof			1	0	0	0	0	0	0	0	0	0	0	0	0						
	13	MVYR	m_venh_ycore			0	0	0	0	0	0	0	0	0	0	0	0	0						
	14	MVYL	m_venh_yclip			1	0	0	0	0	0	0	0	0	0	0	0	0						
	15	MVYE	m_venh_yenh			4	0	0	0	0	0	0	0	0	0	0	0	0						
	16	MVCR	m_venh_ccore			1	0	0	0	0	0	0	0	0	0	0	0	0						
	17	MVCL	m_venh_cclip			1	0	0	0	0	0	0	0	0	0	0	0	0						
	18	MVCE	m_venh_cenh			4	0	0	0	0	0	0	0	0	0	0	0	0						
							MS																	
		19	SHLY	s_hlpf_ycoef			0																	
		20	SHLC	s_hlpf_ccoef			0																	
		21	SVLY	s_vlpf_ycoef			0																	
		22	SVLC	s_vlpf_ccoef			0																	
		23	SHYR	s_henh_ycore			0																	
		24	SHYL	s_henh_yclip			0																	
		25	SHYE	s_henh_yenh			0																	
		26	SHYO	s_henh_ycof			0																	
		27	SHCR	s_henh_ccore			0																	
		28	SHCL	s_henh_cclip			0																	
		29	SHCE	s_henh_cenh			0																	
		30	SHCO	s_henh_ccof			0																	
		31	SVYR	s_venh_ycore			0																	
		32	SVYL	s_venh_yclip			0																	
		33	SVYE	s_venh_yenh			0																	
		34	SVCR	s_venh_ccore			0																	
		35	SVCL	s_venh_cclip			0																	
		36	SVCE	s_venh_cenh			0																	
CXA3506R				480i,YC	Others																			
	0	MCON	Main Contrast	64	64 ♦																			
	1	SCOR	Sub Contrast Red	128	128 ♦																			
	2	SCOG	Sub Contrast Green	128	128																			
	3	SCOB	Sub Contrast Blue	128	128 ♦																			
	4	RGB	RGB Out	0	0																			

♣Adjustable - M Board CBA

♦Adjustable - B Board CBA

♠Adjustable - On Line (STD LIST)

SERVICE DATA LISTS

CATEGORY	#	ITEM	DESCRIPTION	DATA									
AUDIO	0	ASYS	Stereo System 0:BiAmp, 1:3D	57":	0	65":	0	♥ WV600 and WV700 are different					
	1	TRCV	Fc= 0: 3KHz, 1: 5KHz, 2: 7KHz	57":	0	65":	0						
	2	BACV	Fc= 0:80Hz, 1: 160Hz, 2: 240Hz	57":	1	65":	2						
	3	MDCV	Fc= 0: 500Hz, 1: 1KHz, 2: 2KHz	57":	1	65":	1						
	4	SVHI	Sub Vol Hi Freq (1db/step, 0:-7dB, 7:0dB)	57":	5	65":	5						
	5	SVLO	Sub Volume Low Freq	57":	6	65":	6						
	6	MIDL	Mid Cut Off	57":	9	65":	9						
	7	LOFQ	Woofer Cut Off	57":	4	65":	4						
	8	SBAS	Sub Bass	57":	9	65":	9						
	9	BSFQ	Bass Cut Off	57":	7	65":	7						
	10	STRE	Sub Treble	57":	4	65":	5						
	11	TRFQ	Treble Cut Off	57":	7	65":	7						
	12	PSEF	Pseudo Stereo Effect	57":	5	65":	5						
	13	AGCL	AGC Level (0:500mV)	57":	0	65":	0						
				57" Surround OFF		57" Trusurround	57" Simulated	65" Surround OFF		65" Trusurround	65" Simulated		
				Stdy Snd AUTO	Stdy Snd OFF	-	-	Stdy Snd AUTO	Stdy Snd OFF	-	-		
	14	BBE	BBE Switch [1: On , 0: Off]	1	1	1	1	1	1	1	1		
	15	BBEP	BBE1 High	2	2	3	2	2	2	3	2		
	16	BBEL	BBE1 Low	1	1	1	1	2	2	3	2		
	17	BB2P	BBE2 High	0	0	0	0	0	0	0	0		
	18	BB2L	BBE2 Low	0	0	0	0	0	0	0	0		
	19	TRS1	TruSurround Center	57":	4	65":	4						
	20	TRS2	TruSurround Space	57":	5	65":	5						
SNNR	0	MODE	SNNR Mode (0: Auto: 1: SNNR, 2: OFF)	0									
	1	SNNR	Noise Reduction Level Setting	0									
RF Noise Reduction					SNNR=0	SNNR=1	SNNR=2	SNNR=3	SNNR=4	SNNR=5	SNNR=6	SNNR=7	
	2	WSLT	WSL Noise Limit Threshold		0	15	31	45	63	85	127	180	
	3	CPFG	3DCOMB:YPFG = YPFG – CPFG		0	0	1	0	1	1	2	2	
	4	CPFT	3DCOMB:YPFT = YPFT – CPFT		0	0	2	0	2	3	3	3	
	5	CCOR	3DCOMB:YHCO = CCOR	WV600 ♥	0	2	2	2	2	3	3	3	
			WV700 ♥	0		1	1	2	2				
	6	CHCG	3DCOMB:YHCG = CHCG		0	1	1	1	1	1	1	1	
	7	CAPG	3DCOMB:VAPG = YAPG – CAPG		0	0	0	0	0	0	0	0	
	8	3SHP	2103-1:SHAP = USHP – 3SHP	WV600 ♥	0	2	3	5	6	7	8	10	
			WV700 ♥	0		0	0	0	0	0	1		
	9	NYNR	3DNR:YLV = YLV + NYNR		0	1	1	1	2	2	2	2	
	10	NCNR	3DNR:CLV = CLV + NCNR		0	1	1	1	2	2	2	2	
	11	NYMG	3DNR:YMG = YMG – NYMG		0	0	0	0	0	0	0	0	
	12	NCMG	3DNR:CMG = CMG - NCMG		0	0	0	0	0	0	0	0	
	13	NYLT	3DNR:YLT = YLT – NYLT		0	1	1	0	3	4	6	8	
	14	NYNC	3DNR:YNC = YNC – NYNC		1	1	1	1	2	2	2	2	
	15	NYCO	3DNR:YCO = YCO – NYCO		0	0	0	0	0	0	0	0	
	16	7SHP	2170-P4:USHP = USHP – (7SHP x 4)		0	0	0	0	0	1	1	1	
	17	7YF1	2170-P3:F1LV = F1LV – 7YF1		0	0	1	0	2	2	2	3	
	18	7LTI	2170-P3:LTLV = LTLV – 7LTI		0	0	0	0	0	0	0	0	
	19	7CTI	2170-P3:CTIL = CTIL – 7CTI		0	0	0	0	0	0	0	0	
	20	7VML	2170-P3:VM_LEV = VM_LEV – 7VML		0	0	0	0	0	0	0	0	
21	7VMC	2170-P3:VMCR = VMCR + 7VMCR		0	1	1	0	2	2	2	2		
22	MIDD	MIDE = MIDE - MIDD		0	0	0	0	0	0	0	0		

SERVICE DATA LISTS

CATEGORY	#	ITEM	DESCRIPTION	DATA
CCD	0	HPRM	CCD/V-CHIP(Main) OSD H position	60 ♠
	1	HPRS	CCD/V-CHIP(Sub) OSD H position	60 ♠
CC and V Chip	2	YSYM	Caption Background select(Main&Sub)	0
	3	CCDI	Interuption count(Main&Sub)	3
	4	CRIP	CRI count & Parity count	4
	5	PHLD	Peak hold for Data slice(Main&Sub)	0
	6	CHMK	H Mask width(Main&Sub)	52
	7	LANG	V-Chip Disp. Language	2
	8	DATA	Slice data OSD on/off	0
	9	VCHP	V-CHIP Blocking function on/off	0
	10	CLMP	Clamp voltage for V-IN	0
	11	SYSV	SYNC slice voltage for V-IN	4
	12	ID1	ID-1 ON/OFF	1
	13	ID1M	ID-1 Mode	1
	14	FPOL	Field polarity	0
	15	BWHT	Banner white level	0
	16	MESH	Banner back ground type	0
	17	BNBB	Banner back ground color-Blue	1
	18	BNBG	Banner back ground color-Green	1
	19	BNBR	Banner back ground color-Red	0
	20	CMP1	Banner back ground level1 comp	2
	21	CMP2	Banner back ground level2 comp	5
	22	CMP3	Banner back ground level3 comp	3
	23	CWHT	Caption white level	3
	24	VSDW	V sync detection width	1
	25	BFRQ	XDS banner display PLL frequency	0
	26	BPOS		0
	27	BFRM		1
	28	BTIM		0

♣	Adjustable - M Board CBA
♦	Adjustable - B Board CBA
♠	Adjustable - On Line (STD LIST)

SERVICE DATA LISTS

CATEGORY	#	ITEM	DESCRIPTION	DATA			
3DNR (TC90A90F)	0	WHCT	PLL Divider setting	44			
	1	NIQM	U/V input polarity	1			
	2	CLPW	A/D Clamp Pulse width	30			
	3	CLPP	A/D Clamp Pulse Phase	80			
3D Noise Reduction	4	YHBW	Y H Blanking width	138			
	5	YBKL	Y Blanking level adjustment	0			
	6	YBKO	Internal Y H Blanking ON/OFF	0			
	7	MUTE	Signal Output Muting	0			
	8	YHBS	Y H Blanking start point	40			
	9	CHBW	U/V H Blanking width	138			
	10	CBKO	U/V H Blanking start point	40			
	11	CHBO	Internal U/V H Blanking ON/OFF	0			
	12	VHBL	V H Blanking level adjustment	0			
	13	UHBL	U H Blanking level adjustment	0			
	14	UVDL	U/V output delay	0			
	15	YDL	Y output delay	0			
	16	PVDI	VD input polarity	0			
	17	PHDI	HD input polarity	0			
	18	HDW	HD pulse width	16			
	19	PVDO	VD output polarity	0			
	20	PHDO	HD output polarity	0			
	21	HST	HD out pulse start position	54			
	22	VDL	VD out Pulse start position	0			
	23	VDW	VD out Pulse width	3			
	24	NDET	Noise detection point	0			
	25	NVP	Noise detect line	2			
	26	NDTS	Noise detect sencitivity	3			
	27	HROF	H Reference pulse ON/OFF (ON=0)	0			
	28	NDGW	Noise detect gate width	9			
	29	UOFS	U Offset level	1			
	30	POT	Output Port 0/1 Control	0			
	31	UVF	UV Frag polarity	0			
	32	APC	AP Clock polarity	1			
	33	DAP	DAC power save (ON=1)	0			
	34	YLV	Y NR level	Vivid	RF/V1-V4	9 V5-V7 (480i)	8
				Standard	RF/V1-V4	9 V5-V7 (480i)	8
				Movie	RF/V1-V4	8 V5-V7 (480i)	8
				Pro	RF/V1-V4	8 V5-V7 (480i)	8
	35	YST	Setup forced standard detection	0			
	36	YNT	Y NTSC Standard detection	1			
	37	YPL	Y PAL Standard detection	1			
	38	YMV	Y Moving detection filter (ON=0)	0			
	39	YCR	Y Moving detection Coring level	Vivid	RF/V1-V4	3 V5-V7 (480i)	0
				Standard	RF/V1-V4	3 V5-V7 (480i)	0
				Movie	RF/V1-V4	3 V5-V7 (480i)	0
				Pro	RF/V1-V4	3 V5-V7 (480i)	0
	40	VOS	V Offset level	0			
	41	YMG	Y Moving detection gain	Vivid	RF/V1-V4	3 V5-V7 (480i)	3
				Standard	RF/V1-V4	3 V5-V7 (480i)	3
				Movie	RF/V1-V4	3 V5-V7 (480i)	3
				Pro	RF/V1-V4	3 V5-V7 (480i)	3

SERVICE DATA LISTS

CATEGORY	#	ITEM	DESCRIPTION	DATA			
3DNR (TC90A90F)	42	YEG	Y Moving detect on (ON=1)	0			
	43	YEL	Y edge moving detection sensitivity	Vivid	RF/V1-V4	6 V5-V7 (480i)	6
				Standard	RF/V1-V4	6 V5-V7 (480i)	6
3D Noise Reduction				Movie	RF/V1-V4	6 V5-V7 (480i)	6
				Pro	RF/V1-V4	6 V5-V7 (480i)	6
	44	YLM	Y NR Feed back limit level	Vivid	RF/V1-V4	6 V5-V7 (480i)	6
				Standard	RF/V1-V4	6 V5-V7 (480i)	6
				Movie	RF/V1-V4	6 V5-V7 (480i)	6
				Pro	RF/V1-V4	6 V5-V7 (480i)	6
	45	CLV	C NR level	Vivid	RF/V1-V4	9 V5-V7 (480i)	8
				Standard	RF/V1-V4	9 V5-V7 (480i)	8
				Movie	RF/V1-V4	8 V5-V7 (480i)	8
				Pro	RF/V1-V4	8 V5-V7 (480i)	8
	46	CNT	Relate C NR to YSTDN	1			
	47	CPL	Relate C NR to YSTDN	1			
	48	CMG	C Moving detection gain	Vivid	RF/V1-V4	3 V5-V7 (480i)	3
				Standard	RF/V1-V4	3 V5-V7 (480i)	3
				Movie	RF/V1-V4	3 V5-V7 (480i)	3
				Pro	RF/V1-V4	3 V5-V7 (480i)	3
	49	CCR	C Moving detection coring level	Vivid	RF/V1-V4	3 V5-V7 (480i)	0
				Standard	RF/V1-V4	3 V5-V7 (480i)	0
				Movie	RF/V1-V4	3 V5-V7 (480i)	0
				Pro	RF/V1-V4	3 V5-V7 (480i)	0
	50	CLM	C NR Feed back limit level	Vivid	RF/V1-V4	6 V5-V7 (480i)	6
				Standard	RF/V1-V4	6 V5-V7 (480i)	6
				Movie	RF/V1-V4	6 V5-V7 (480i)	6
				Pro	RF/V1-V4	6 V5-V7 (480i)	6
	51	NVSL		20			
	52	NVSH	NR Vertical start line	0			
	53	NHS	NR Horizontal start position	16			
	54	NVEL		248			
	55	NVEH	NR Vertical end line	0			
	56	NHE	NR Horizontal end position	120			
	57	YNG	Y Coring gain	Vivid	RF/V1-V4	3 V5-V7 (480i)	3
				Standard	RF/V1-V4	3 V5-V7 (480i)	3
				Movie	RF/V1-V4	3 V5-V7 (480i)	3
				Pro	RF/V1-V4	3 V5-V7 (480i)	3
	58	COR	Coring/through (Coring=0)	Vivid	RF/V1-V4	0 V5-V7 (480i)	0
				Standard	RF/V1-V4	0 V5-V7 (480i)	0
				Movie	RF/V1-V4	0 V5-V7 (480i)	0
				Pro	RF/V1-V4	0 V5-V7 (480i)	0
	59	LPF	LPF on/off (on=0)	Vivid	RF/V1-V4	0 V5-V7 (480i)	0
				Standard	RF/V1-V4	0 V5-V7 (480i)	0
				Movie	RF/V1-V4	0 V5-V7 (480i)	0
				Pro	RF/V1-V4	0 V5-V7 (480i)	0
	60	YLT	Y Coring limit level	Vivid	RF/V1-V4	6 V5-V7 (480i)	6
				Standard	RF/V1-V4	6 V5-V7 (480i)	6
				Movie	RF/V1-V4	6 V5-V7 (480i)	6
				Pro	RF/V1-V4	6 V5-V7 (480i)	6

SERVICE DATA LISTS

CATEGORY	#	ITEM	DESCRIPTION	DATA															
3DNR (TC90A90F) 3D Noise Reduction	61	YNC	Y Coring offset level	Vivid	RF/V1-V4	9	V5-V7 (480i)	8	* Item 61 YNC data should be the same as Item 34 YNR data.										
				Standard	RF/V1-V4	9	V5-V7 (480i)	8											
				Movie	RF/V1-V4	8	V5-V7 (480i)	8											
				Pro	RF/V1-V4	8	V5-V7 (480i)	8											
	62	YCO	Y Coring off (on=1)	Vivid	RF/V1-V4	0	V5-V7 (480i)	0											
				Standard	RF/V1-V4	0	V5-V7 (480i)	0											
				Movie	RF/V1-V4	0	V5-V7 (480i)	0											
				Pro	RF/V1-V4	0	V5-V7 (480i)	0											
	63	ADTH	0: DNR, 1: AD	0															
	DRCV	0	MFVR	DRC ID [0: DRC-VOL, 1: DRC-MF]	0														
(CXD2097) DRC-VOL	1	ISEL	Input select [0:A/D 1:3DNR]	1															
	2	ORES	Reality (Resolution Effect) Offset	Vivid	RF	128	V1-V4	128	V5, V6	128	V7	128							
				Standard	RF	128	V1-V4	128	V5, V6	128	V7	128							
				Movie	RF	128	V1-V4	128	V5, V6	128	V7	128							
				Pro	RF	128	V1-V4	128	V5, V6	128	V7	128							
	3	ONCT	Clarity (Noise Effect) Offset	Vivid	RF	128	V1-V4	128	V5, V6	128	V7	128							
				Standard	RF	128	V1-V4	128	V5, V6	128	V7	128							
				Movie	RF	128	V1-V4	128	V5, V6	128	V7	128							
				Pro	RF	128	V1-V4	128	V5, V6	128	V7	128							
	4	AINI	User Clarity (Noise) Initial Position	CUSTOM1	0	CUSTOM2	49	CUSTOM3	79										
	5	BINI	User Reality (Resolution) Initial Position	CUSTOM1	24	CUSTOM2	54	CUSTOM3	89										
	6	FMAT	Film Mode Automatic 525P [1: ON, 0: OFF]	0															
	7	FMTH	Film Mode Threshold	Other	1	RF	1	[0: DVD, 1: CXD2095, 2: air strong electric fields, 3: air medium electric fields]											
	8	FSEL	Y Horizontal Filter [1: OFF, 0: ON]	1															
	9	CDLY	C-Y Delay	2															
	10	LMIT	Peak Limiter [1: Slew, 0: Limiter ON]	0															
	11	LMLV	Limit Level	Vivid	2	Standard	2	Movie	2	Pro	2								
	12	LMSL	Peak Limiter Ref. for Progressive	1	[1: Automatic, 0: Fixed]														
	13	VDLY	Input vertical signal delay	1															
	14	VDPR	Vertical Signal Sample Timing Switch	3	[Normally High]														
	15	WPLL	TBC Horizontal Phase Switching	2	[Normally High]														
	16	CRCT	Text Countermeasures Circuit [1: ON, 0: OFF]	0															
	17	NRA		SNNR(1)	0	SNNR(2)	0	SNNR(3)	0	SNNR(4)	0	SNNR(5)	0	SNNR(6)	0	SNNR(7)	0		
	18	NRB		SNNR(1)	128	SNNR(2)	128	SNNR(3)	128	SNNR(4)	128	SNNR(5)	128	SNNR(6)	128	SNNR(7)	128		

SERVICE DATA LISTS

CATEGORY	#	ITEM	DESCRIPTION	MIN	MAX	Full / Normal	Zoom	WideZoom	1080i
PJE	0	FDIS	Display fine adjustment data	0	1	1			
	1	AREA	Model Select [0: GA, 1: US, 2: Europe]	0	2	1			
	2	COPY	Service copy adjustment	0	1	0			
	3	ALCP	Service all copy adjustment	0	1	0			
	4	OSDH	Osd horiz position of PJED service menu	1	255	11			
	5	OSDV	Osd vert pos of PJED service menu	1	255	57	106	78	15
	6	FVSL	Start position of fine adjustment	0	15	0	14	15	0
	7	FVSP	Start line of fine adjustment	0	255	3	21	25	53
	8	V1DL	Value of V1 delay	0	255	1	140	61	1
	9	V1CU	Value of V1 count up	0	4095	454	598	506	387
	10	V1OH	Value of V1 offset upper data	0	255	5	5	5	79
	11	COHP	Horizontal phase for rough adjustment	0	4095	0			
	12	FIHP	Horizontal phase for fine adjustment	0	4095	1111			
	13	TPHP	Horizontal phase for test pattern	0	4095	72			
	14	TPVP	Vertical phase for test pattern	0	255	55	111	79	15
	15	DFHP	H phase for dyn focus (57")	0	4095	190			
			H phase for dyn focus (65")			190			
			H phase for dyn focus (65" 4% bigger)			200			
	16	DFHG	H parabola for dyn focus (57")	-128	127	-85	-85	-85	-85
			H parabola for dyn focus (65")			-100	-100	-100	-100
			H parabola for dyn focus (65" 4% bigger)			-95	-95	-95	-95
	17	DFVG	V parabola for dyn focus (57")	-128	127	-65	-65	-65	-65
			V parabola for dyn focus (65")			-70	-70	-70	-70
			V parabola for dyn focus (65" 4% bigger)			-95	-95	-95	-95
	18	DFDC	Center for dyn focus (57")	-128	127	127	127	127	127
			Center for dyn focus (65")			127	127	127	127
			Center for dyn focus (65" 4% bigger)			127	127	127	127
	19	DFV1	V1 saw for dyn focus (57")	-128	127	-50	-50	-50	-50
			V1 saw for dyn focus (65")			-50	-50	-50	-50
			V1 saw for dyn focus (65" 4% bigger)			-50	-50	-50	-50
	20	SDHP	Compensation of horiz phase for shading	0	4095	500			
	21	SDH1	Horizontal saw wave for dynamic focus	-128	127	127	127	127	127
	22	BDVU	Vertical position for border line 1	0	2047	27	21	12	53
	23	BDVL	Vertical position for border line 2	0	2047	901	683	820	1035
	24	BDHL	Horizontal position for border line 1	0	2047	152	152	145	152
	25	BDHR	Horizontal position for border line 2	0	2047	1254	1254	1261	1254
	26	HBLD	Horizontal phase for output of H.Blank out	0	4095	32			
	27	HBLW	Width for output of H.Blank out	0	4095	143			
	28	PWM2	PWM2 Regi IC output width (57")	0	4095	730			
			PWM2 Regi IC output width (65")			730			
			PWM2 Regi IC output width (65" 4% bigger)			730			

SERVICE DATA LISTS

CATEGORY	#	ITEM	DESCRIPTION	MIN	MAX	DATA
PJE	29	R0GH	Green Horizontal Sensor 0 Ratio Offset	-128	127	-
	30	R0RH	Red Horizontal Sensor 0 Ratio Offset	-128	127	-
	31	R0BH	Blue Horizontal Sensor 0 Ratio Offset	-128	127	-
	32	R1GH	Green Horizontal Sensor 1 Ratio Offset	-128	127	-
	33	R1RH	Red Horizontal Sensor 1 Ratio Offset	-128	127	-
	34	R1BH	Blue Horizontal Sensor 1 Ratio Offset	-128	127	-
	35	R1GV	Green Vertical Sensor 1 Ratio Offset	-128	127	-
	36	R1RV	Red Vertical Sensor 1 Ratio Offset	-128	127	-
	37	R1BV	Blue Vertical Sensor 1 Ratio Offset	-128	127	-
	38	R2GH	Green Horizontal Sensor 2 Ratio Offset	-128	127	-
	39	R2RH	Red Horizontal Sensor 2 Ratio Offset	-128	127	-
	40	R2BH	Blue Horizontal Sensor 2 Ratio Offset	-128	127	-
	41	R2GV	Green Vertical Sensor 2 Ratio Offset	-128	127	-
	42	R2RV	Red Vertical Sensor 2 Ratio Offset	-128	127	-
	43	R2BV	Blue Vertical Sensor 2 Ratio Offset	-128	127	-
	44	R3GH	Green Horizontal Sensor 3 Ratio Offset	-128	127	-
	45	R3RH	Red Horizontal Sensor 3 Ratio Offset	-128	127	-
	46	R3BH	Blue Horizontal Sensor 3 Ratio Offset	-128	127	-
	47	PTRH	Red Horiz Top Pattern Position Offset	-128	127	-
	48	PTBH	Blue Horiz Top Pattern Position Offset	-128	127	-
	49	PLRH	Red Horiz Left Pattern Position Offset	-128	127	-
	50	PLBH	Blue Horiz Left Pattern Position Offset	-128	127	-
	51	PLRV	Red Vertical Left Pattern Position Offset	-128	127	-
	52	PLBV	Blue Vertical Left Pattern Position Offset	-128	127	-
	53	PRRH	Red Horiz Right Pattern Position Offset	-128	127	-
	54	PRBH	Blue Horiz Right Pattern Pos Offset	-128	127	-
	55	PRGV	Green Vertical Right Pattern Pos Offset	-128	127	-
	56	PRRV	Red Vertical Right Pattern Pos Offset	-128	127	-
	57	PRBV	Blue Vertical Right Pattern Pos Offset	-128	127	-
	58	PBGH	Green Horiz Bottom Pattern Pos Offset	-128	127	-
	59	PBRH	Red Horiz Bottom Pattern Pos Offset	-128	127	-
	60	PBBH	Blue Horiz Bottom Pattern Pos Offset	-128	127	-

SERVICE DATA LISTS

CATEGORY	#	ITEM	DESCRIPTION	MIN	MAX												
PJE	61	ERR	Auto Regi. Error code	0	-	0											
	62	ADTM	A/D data input timing of Auto Regi.	0	127	81											
	63	ADT2	A/D data input timing of Auto Regi. #2	0	255	115											
	64	SZLM	Size Limit	-128	127	0											
	65	RTLM	Ratio Limit	0	127	90											
	66	VUP	Auto Regi. Pattern Upper V position	0	2047	57"	41	65"	41								
	67	VMID	Auto Regi. Pattern Middle V position	0	2047	57"	505	65"	505								
	68	VLOW	Auto Regi. Pattern Lower V position	0	2047	57"	971	65"	971								
	69	HLE	Auto Regi. Pattern left H position	0	4095	57"	55	65"	55								
	70	HMD	Auto Regi. Pattern middle H position	0	4095	57"	636	65"	636								
	71	HRIV	Auto Regi. Pattern right H position	0	4095	57"	1217	65"	1217								
	72	TEST				0											
	73	SFTF	Fast motion of burn prevention switch	0	1	0											
	74	SFTE	CRT burn prevention enable	0	5	4	[0: Off, 1: 120sec, 2: 60sec, 3: 30sec, 4: 15sec, 5: 8sec]										
	75	ACTL	Account timer counter lower byte	0	-	0											
	76	ACTH	Account timer counter upper byte	0	-	0											
	77	ATTN	Auto Regi adjustment item select	0	3	57"	0	65"	0								
	78	VB1S	VBLKOUT1 Horizontal Phase	0	1023	Full / Normal	0	Zoom	0	W Zoom	0	1080i	0				
	79	VB1W	VBLKOUT1 Output Width	0	1023	Full / Normal	16	Zoom	16	W Zoom	16	1080i	16				
	80	VB2S	VBLKOUT2 Horizontal Phase	0	1023	Full / Normal	0	Zoom	0	W Zoom	0	1080i	0				
	81	VB2W	VBLKOUT2 Output Width	0	1023	Full / Normal	54	Zoom	110	W Zoom	72	1080i	24				
	82	VB3S	VBLKOUT3 Horizontal Phase	0	1023	Full / Normal	520	Zoom	464	W Zoom	502	1080i	550				
	83	VB3W	VBLKOUT3 Output Width	0	1023	Full / Normal	42	Zoom	98	W Zoom	60	1080i	12				
	84	VB4S	VBLKOUT4 Horizontal Phase			Full / Normal	0	Zoom	0	W Zoom	0	1080i	7				
	85	VB4W	VBLKOUT4 Output Width			Full / Normal	5	Zoom	5	W Zoom	5	1080i	5				
						Full / Normal ▲								Zoom ▲			
						Green		Blue		Red		Green		Blue		Red	
		CENT	Center Registration Adjustment	-512	511	35	20	35	20	35	20	35	20	35	20	35	20
		SKEW	Skew Registration Adjustment	-512	511	0	0	0	0	0	0	0	0	0	0	0	0
		SIZE	Size Registration Adjustment	-512	511	-100	-75	-100	-75	-100	-75	-100	-75	-100	-75	-100	-75
		LIN	Linearity Registration Adjustment	-512	511	0	0	-425	0	425	0	0	0	-425	0	425	0
		KEY	Keystone Registration Adjustment	-512	511	N/A	0	N/A	-120	N/A	120	N/A	0	N/A	-120	N/A	120
		PIN	Pincushion Registration Adjustment	-512	511	0	400	0	350	0	350	0	400	0	350	0	350
		MLIN	Middle Linearity Registration Adjustment	-512	511	0	N/A	150	N/A	-150	N/A	0	N/A	150	N/A	-150	N/A
		MSIZ	Middle Size Registration Adjustment	-512	511	-200	N/A	-100	N/A	-100	N/A	-200	N/A	-100	N/A	-100	N/A
						Wide Zoom ▲								1080i / Twin ▲			
						Green		Blue		Red		Green		Blue		Red	
		CENT	Center Registration Adjustment	-512	511	35	20	35	20	35	20	35	20	35	20	35	20
		SKEW	Skew Registration Adjustment	-512	511	0	0	0	0	0	0	0	0	0	0	0	0
		SIZE	Size Registration Adjustment	-512	511	-100	-75	-100	-75	-100	-75	-100	-75	-100	-75	-100	-75
		LIN	Linearity Registration Adjustment	-512	511	0	0	-425	0	425	0	0	0	-425	0	425	0
		KEY	Keystone Registration Adjustment	-512	511	N/A	0	N/A	-120	N/A	120	N/A	0	N/A	-120	N/A	120
		PIN	Pincushion Registration Adjustment	-512	511	0	400	0	350	0	350	0	400	0	350	0	350
		MLIN	Middle Linearity Registration Adjustment	-512	511	0	N/A	150	N/A	-150	N/A	0	N/A	150	N/A	-150	N/A
		MSIZ	Middle Size Registration Adjustment	-512	511	-200	N/A	-100	N/A	-100	N/A	-200	N/A	-100	N/A	-100	N/A
						* FINE Adjustment should be limited to less than +/-107 steps for each point.											

♣ Adjustable - M Board CBA

♦ Adjustable - B Board CBA

▲ Adjustable - On Line (STD LIST)

PJE INIT (7+ENTER) writes "0" only to sub deflection presets and fine regi data of the deflection mode you are in.

♣	Adjustable - M Board CBA
♦	Adjustable - B Board CBA
♠	Adjustable - On Line (STD LIST)

* PJE INIT (7+ENTER)
writes "0" only to sub
deflection presets
and fine regi data
of the deflection mode
you are in.

SERVICE DATA LISTS

CATEGORY	#	ITEM	DESCRIPTION			DATA							
OP	0	DLY1	Delay time1 of power on sequence			12	♣ Adjustable - M Board CBA ♦ Adjustable - B Board CBA ♠ Adjustable - On Line (STD LIS) [0: No checking at mode change / refresh, 1: Checking at refresh only, 2: Checking at mode change / refresh, 3: N/A]						
	1	DLY2	Delay time2 of power on sequence			18							
	2	DLY3	Delay time3 of power on sequence			7							
	3	OSDH	OSD H position [0:LEFT, 254:RIGHT]			13 ♠							
	4	HDPT	1080i through sw [0:through, 1:MID]			1							
	5	MSBG	Memory Stic Background Color			80							
	6	AACK	Audio DSP ACK Checking Switch			2							
	7	RAMW	RAM window display [0:OFF, 1:DISPLAY]			0							
CATEGORY	#	ITEM	DESCRIPTION	DATA	INDEX								
ID	0	ID0	Language/System	89	Korean 0	French 1	Portuguese 0	Spanish 1	English 1	PAL-N 0	PAL-M 0	NTSC 1	
	1	ID1	Video Input	255	DVI input 1	V3 - S Video 1	V2 - S Video 1	V1 - S Video 1	Video4 1	Video3 1	Video2 1	Video1 1	
	2	ID2	Audio	239	Auto Vol 1	Auto Mute 1	Surround1 1	Surround0 0	Audio out 1	Bass/Treb/Bal 1	Spkr SW 1	MTS 1	
	3	ID3	Etc	107	AC stay off 0	Front Panel Cntr 1	Vchip-US 1	Vchip-Canada 0	2:3Pull 0	Key power 1	Stereo/main 1	DRC Vol 1	
	4	ID4	Etc2	75	Tilt Corr 0	3D Comb 1	No-sig. auto off 0	CH block 0	Comb 1	Spot Kil 0	XDS 1	CC 1	
	5	ID5	Etc3	243	Wideband VM 1	NR 1	Color Temp 1	VM 1	TV out 0	MS "ACCESS" off 0	MS Button toggle 1	Mem Stic 1	
	6	ID6	Sub Picture	126	0	Scrolling Index 1	MultPic 1 1	MultPic 0 1	Antenna SW 1 1	Antenna SW 0 1	2Tu PIP 1	1Tu PIP 0	
	7	ID7	Etc4	27	0	Latin 0	PIP for Twin 0	AutoSAP 1	XBR / HS 1	Center SP 0	PJ / Direct View 1	Widescrn 1	

INITIALIZATION SEQUENCES

MID NVM only (MAIN_A8):	7+JUMP+Enter
Main NVM only (MAIN_A0)	7+9+Enter
All NVM including PJED: (PJED_A0 + MAIN_A0 + MAIN_A8)	7+Audio Effect+Enter
PJED REGISTRATION DATA only	7+Enter (in PJE service)

2-11-1. MODEL NVM DIFFERENCE

SERVICE ITEM				
ITEM	57WV600	65WV600	57WV700	65WV700
2170P-4 8 - UBRT (VIVID)	19	19	28	28
2170P-4 10 - USHP (VIVID)	25	25	29	29
2170P-4 7 - UPIC (STANDARD)	47	47	50	50
2170P-4 8 - UBRT (STANDARD)	31	31	36	36
2170P-4 7 - UPIC (MOVIE)	18	18	20	20
2170P-4 8 - UBRT (MOVIE)	31	31	34	34
2170P-4 22 - BLK (1080iV5-6, VIVID)	3	3	2	2
2170P-4 22 - BLK (720PV5-6, VIVID)	3	3	2	2
2170P-4 22 - BLK (1080iV7, VIVID)	3	3	2	2
2170P-4 22 - BLK (720PV7, VIVID)	3	3	2	2
2170P-4 22 - BLK (MS PLAY, VIVID)	3	3	2	2
2170P-4 19 - GAMR (GAMM=1)	4	4	6	6
2170P-4 20 - GAMG (GAMM=1)	4	4	6	6
2170P-4 21 - GAMB (GAMM=1)	4	4	6	6
2170P-4 19 - GAMR (GAMM=2)	3	3	4	4
2170P-4 20 - GAMG (GAMM=2)	3	3	4	4
2170P-4 21 - GAMB (GAMM=2)	3	3	4	4
2170P-4 19 - GAMR (GAMM=3)	7	7	9	9
2170P-4 20 - GAMG (GAMM=3)	7	7	9	9
2170P-4 21 - GAMB (GAMM=3)	7	7	9	9
2170P-4 23 - DCTR (BLK=1)	10	10	5	5
2170P-4 24 - APED (BLK=1)	2	2	1	1
2170P-4 23 - DCTR (BLK=3)	15	15	8	8
SNNR 5 - CCOR (SNNR=1)	2	2	0	0
SNNR 8 - 3SHP (SNNR=1)	2	2	0	0
SNNR 5 - CCOR (SNNR=2)	2	2	1	1
SNNR 8 - 3SHP (SNNR=2)	3	3	0	0
SNNR 5 - CCOR (SNNR=3)	2	2	1	1
SNNR 8 - 3SHP (SNNR=3)	5	5	0	0
SNNR 8 - 3SHP (SNNR=4)	6	6	0	0
SNNR 5 - CCOR (SNNR=5)	3	3	2	2
SNNR 8 - 3SHP (SNNR=5)	7	7	0	0
SNNR 8 - 3SHP (SNNR=6)	8	8	0	0
SNNR 8 - 3SHP (SNNR=7)	10	10	1	1
2170P-3 15 - UHOF (1080iV7, VIVID)	1	1	2	2

SERVICE ITEM				
ITEM	57WV600	65WV600	57WV700	65WV700
2170P-3 4 - VMF0 (RF, VIVID)	0	0	2	2
2170P-3 5 - VMDL (RF, VIVID)	15	15	8	8
2170P-3 6 - SHOF (RF, VIVID)	0	0	2	2
2170P-3 14 - UCOF (RF, VIVID)	3	3	0	0
2170P-3 4 - VMF0 (V1-4, VIVID)	0	0	2	2
2170P-3 5 - VMDL (V1-4, VIVID)	15	15	8	8
2170P-3 13 - UBOF (V1-4, VIVID)	2	2	3	3
2170P-3 14 - UCOF (V1-4, VIVID)	3	3	1	1
2170P-3 15 - UHOF (V1-4, VIVID)	0	0	3	3
2170P-3 4 - VMF0 (480iV5-6, VIVID)	1	1	2	2
2170P-3 5 - VMDL (480iV5-6, VIVID)	11	11	8	8
2170P-3 6 - SHOF (480iV5-6, VIVID)	2	2	1	1
2170P-3 13 - UBOF (480iV5-6, VIVID)	4	4	3	3
2170P-3 14 - UCOF (480iV5-6, VIVID)	3	3	1	1
2170P-3 15 - UHOF (480iV5-6, VIVID)	1	1	3	3
2170P-3 4 - VMF0 (480PV5-6, VIVID)	1	1	2	2
2170P-3 5 - VMDL (480PV5-6, VIVID)	11	11	8	8
2170P-3 15 - UHOF (480PV5-6, VIVID)	0	0	2	2
2170P-3 6 - SHOF (1080iV5-6, VIVID)	3	2	2	2
2170P-3 14 - UCOF (1080iV5-6, VIVID)	2	1	3	3
2170P-3 15 - UHOF (1080iV5-6, VIVID)	1	1	2	2
2170P-3 6 - SHOF (720PV5-6, VIVID)	3	2	2	2
2170P-3 14 - UCOF (720PV5-6, VIVID)	2	1	3	3
2170P-3 15 - UHOF (720PV5-6, VIVID)	1	1	2	2
2170P-3 4 - VMF0 (480iV7, VIVID)	1	1	2	2
2170P-3 5 - VMDL (480iV7, VIVID)	11	11	8	8
2170P-3 6 - SHOF (480iV7, VIVID)	2	2	1	1
2170P-3 13 - UBOF (480iV7, VIVID)	4	4	3	3
2170P-3 14 - UCOF (480iV7, VIVID)	3	3	1	1
2170P-3 15 - UHOF (480iV7, VIVID)	1	1	3	3
2170P-3 4 - VMF0 (480PV7, VIVID)	1	1	2	2
2170P-3 5 - VMDL (480PV7, VIVID)	11	11	8	8
2170P-3 15 - UHOF (480PV7, VIVID)	0	0	2	2
2170P-3 6 - SHOF (1080iV7, VIVID)	3	2	2	2
2170P-3 14 - UCOF (1080iV7, VIVID)	2	1	3	3

MODEL NVM DIFFERENCE

SERVICE ITEM				
ITEM	57WV600	65WV600	57WV700	65WV700
2170P-3 6 - SHOF (720PV7, VIVID)	3	2	2	2
2170P-3 14 - UCOF (720PV7, VIVID)	2	1	3	3
2170P-3 15 - UHOF (720PV7, VIVID)	1	1	2	2
2170P-3 6 - SHOF (MS PLAY, VIVID)	3	2	2	2
2170P-3 14 - UCOF (MS PLAY, VIVID)	2	1	3	3
2170P-3 15 - UHOF (MS PLAY, VIVID)	1	1	2	2
2170P-3 4 - VMF0 (TWIN, VIVID)	0	0	2	2
2170P-3 5 - VMDL (TWIN, VIVID)	15	15	8	8
2170P-3 13 - UBOF (TWIN, VIVID)	4	4	0	0
2170P-3 14 - UCOF (TWIN, VIVID)	2	1	0	0
2170P-3 4 - VMF0 (RF, STANDARD)	0	0	2	2
2170P-3 5 - VMDL (RF, STANDARD)	15	15	8	8
2170P-3 6 - SHOF (RF, STANDARD)	0	0	2	2
2170P-3 14 - UCOF (RF, STANDARD)	1	1	0	0
2170P-3 15 - UHOF (RF, STANDARD)	1	1	2	2
2170P-3 4 - VMF0 (V1-4, STANDARD)	0	0	2	2
2170P-3 5 - VMDL (V1-4, STANDARD)	15	15	8	8
2170P-3 6 - SHOF (V1-4, STANDARD)	1	1	2	2
2170P-3 13 - UBOF (V1-4, STANDARD)	1	1	0	0
2170P-3 14 - UCOF (V1-4, STANDARD)	2	2	0	0
2170P-3 15 - UHOF (V1-4, STANDARD)	0	0	3	3
2170P-3 4 - VMF0 (480iV5-6, STANDARD)	1	1	2	2
2170P-3 5 - VMDL (480iV5-6, STANDARD)	11	11	8	8
2170P-3 6 - SHOF (480iV5-6, STANDARD)	1	1	2	2
2170P-3 15 - UHOF (480iV5-6, STANDARD)	1	1	3	3
2170P-3 4 - VMF0 (480PV5-6, STANDARD)	1	1	2	2
2170P-3 5 - VMDL (480PV5-6, STANDARD)	11	11	8	8
2170P-3 6 - SHOF (480PV5-6, STANDARD)	1	1	0	0
2170P-3 14 - UCOF (480PV5-6, STANDARD)	1	1	0	0
2170P-3 15 - UHOF (480PV5-6, STANDARD)	0	0	2	2
2170P-3 14 - UCOF (1080iV5-6, STANDARD)	0	0	1	1
2170P-3 15 - UHOF (1080iV5-6, STANDARD)	1	1	2	2
2170P-3 14 - UCOF (720PV5-6, STANDARD)	0	0	1	1
2170P-3 15 - UHOF (720PV5-6, STANDARD)	1	1	2	2
MID5 1 - MHLY (POP 5)	1	1	2	2

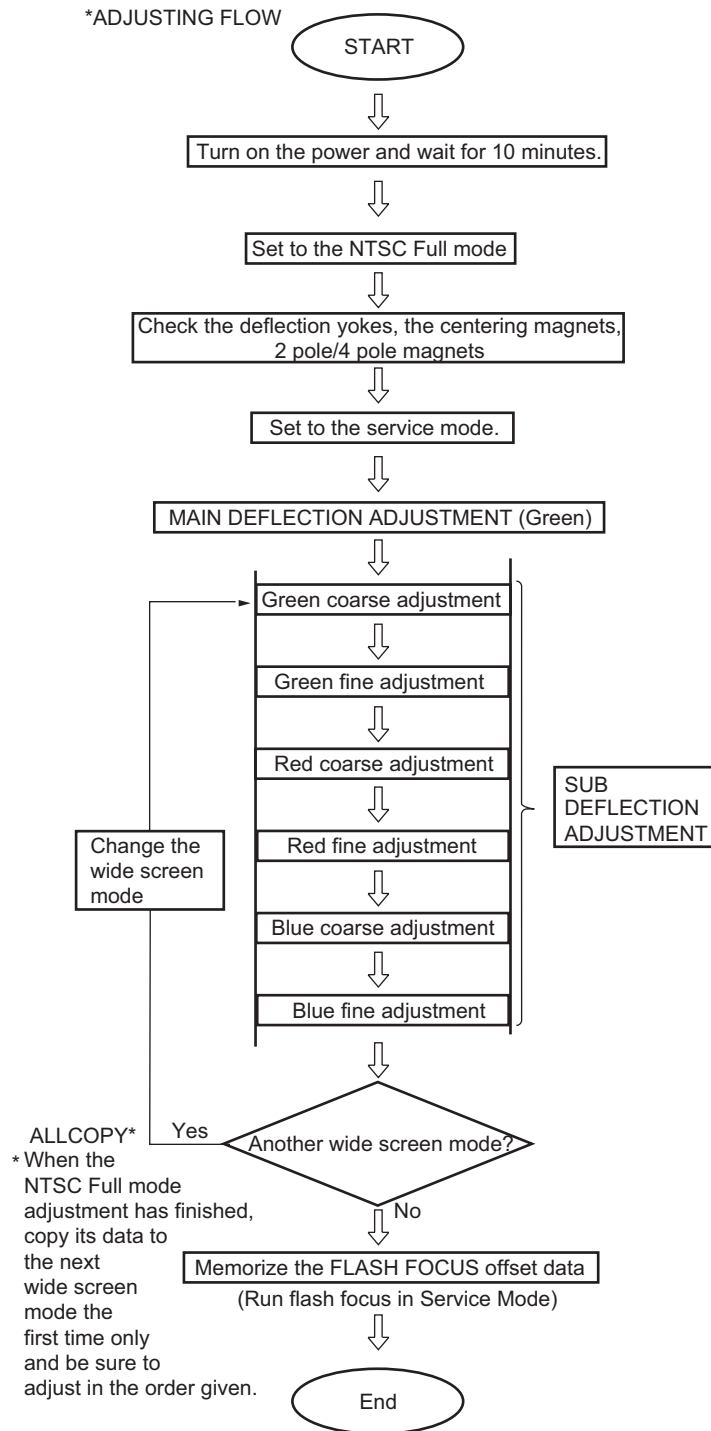
SERVICE ITEM				
ITEM	57WV600	65WV600	57WV700	65WV700
2170P-3 4 - VMF0 (480iV7, STANDARD)	1	1	2	2
2170P-3 5 - VMDL (480iV7, STANDARD)	11	11	8	8
2170P-3 6 - SHOF (480iV7, STANDARD)	1	1	2	2
2170P-3 15 - UHOF (480iV7, STANDARD)	1	1	3	3
2170P-3 4 - VMF0 (480PV7, STANDARD)	1	1	2	2
2170P-3 5 - VMDL (480PV7, STANDARD)	11	11	8	8
2170P-3 6 - SHOF (480PV7, STANDARD)	1	1	0	0
2170P-3 15 - UHOF (480PV7, STANDARD)	0	0	2	2
2170P-3 14 - UCOF (1080iV7, STANDARD)	0	0	1	1
2170P-3 15 - UHOF (1080iV7, STANDARD)	1	1	2	2
2170P-3 14 - UCOF (720PV7, STANDARD)	0	0	1	1
2170P-3 15 - UHOF (720PV7, STANDARD)	1	1	2	2
2170P-3 14 - UCOF (MS PLAY, STANDARD)	0	0	1	1
2170P-3 15 - UHOF (MS PLAY, STANDARD)	1	1	2	2
2170P-3 4 - VMF0 (TWIN, STANDARD)	0	0	2	2
2170P-3 5 - VMDL (TWIN, STANDARD)	15	15	8	8
2170P-3 13 - UBOF (RF, STANDARD)	1	1	5	5
2103-1 6 - SHAP (OTHERS)	11	11	6	6
2103-1 6 - SHAP (V1-4)	11	11	8	8
2103-1 24 - ATPD (TWIN BLK=1)	1	1	3	3
2103-1 25 - DCTR (TWIN BLK=1)	2	2	3	3
3DCOMB 21 - YHCO	3	3	2	2
3DCOMB 18 - YPFG (V1-4, MOVIE)	6	6	5	5
AUDIO 10 - STRE	4	5	4	5
AUDIO 2 - BACV	1	2	1	2
AUDIO 16 - BBEL (SURROUND OFF, S.S. OF	1	2	1	2
AUDIO 16 - BBEL (SURROUND OFF, S.S. AU	1	2	1	2
AUDIO 16 - BBEL (TRUSURROUND)	1	3	1	3
AUDIO 16 - BBEL (SIMULATED)	1	2	1	2
2170P-3 14 - UCOF (MS MENU, VIVID)	2	1	3	3
2170P-3 15 - UHOF (MS MENU, VIVID)	1	1	2	2
2170P-3 14 - UCOF (MS MENU, STANDARD)	0	0	1	1
2170P-3 15 - UHOF (MS MENU, STANDARD)	1	1	2	2
2170P-4 22 - BLK (MS MENU, VIVID)	3	3	2	2
MID5 1 - MHLY (POP 0)	1	1	2	2

MODEL NVM DIFFERENCE

SERVICE ITEM				
ITEM	57WV600	65WV600	57WV700	65WV700
MID5 6 - MHYL (POP 5)	1	1	2	2
MID5 7 - MHYE (POP 5)	0	0	7	7
MID5 15 - MVYE (POP 5)	5	5	3	3
MID5 1 - MHLY (POP 7)	1	1	2	2
MID5 6 - MHYL (POP 7)	1	1	2	2
MID5 7 - MHYE (POP 7)	0	0	7	7
MID5 13 - MVYR (POP 7)	3	3	2	2
MID5 15 - MVYE (POP 7)	5	5	3	3
MID5 5 - MHYR (POP 11)	1	1	2	2
MID5 6 - MHYL (POP 11)	1	1	2	2
MID5 7 - MHYE (POP 11)	7	7	4	4
MID5 13 - MVYR (POP 11)	1	1	2	2
MID5 15 - MVYE (POP 11)	5	5	3	3
MID5 5 - MHYR (POP 12)	1	1	2	2
MID5 6 - MHYL (POP 12)	1	1	2	2
MID5 13 - MVYR (POP 12)	1	1	3	3
MID5 15 - MVYE (POP 12)	5	5	3	3
MID5 7 - MHYE (POP 16)	7	7	2	2
MID5 15 - MVYE (POP 16)	5	5	3	3
MID5 5 - MHYR (POP 17)	1	1	3	3
MID5 15 - MVYE (POP 17)	7	7	5	5
MID5 5 - MHYR (POP 21)	1	1	2	2
MID5 6 - MHYL (POP 21)	1	1	2	2
MID5 7 - MHYE (POP 21)	4	4	0	0
MID5 13 - MVYR (POP 21)	1	1	2	2
MID5 15 - MVYE (POP 21)	5	5	3	3
MID5 7 - MHYE (POP 22)	0	0	4	4
MID5 13 - MVYR (POP 22)	1	1	2	2
MID5 15 - MVYE (POP 22)	7	7	5	5

SERVICE ITEM				
ITEM	57WV600	65WV600	57WV700	65WV700
PJE 16 - DFHG	-85	-100	-85	-100
PJE 17 - DFVG	-65	-70	-65	-70

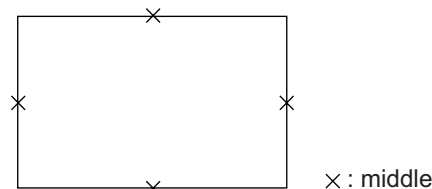
2-12.REGISTRATION ADJUSTMENT (PJE MODE ONLY)



2-12-1.SETUP FOR ADJUSTMENT

MARKING

- At the 4 sides of the screen, locate the middle. Use a tape measure to identify the middle.



DATA SETTING

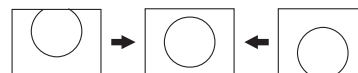
- Set NTSC Full mode.
- Enter the service mode, and select "PJE".

2-12-2.MAIN DEFLECTION ADJUSTMENT

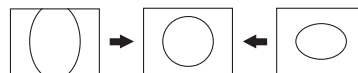
NOTE: Before this adjustment, refer to section 2-11 for PJE item #78-85 input data.

- Cover the red and blue CRT lenses with lens caps to allow only green to show (or use the method shown in the note below for turning off the CRTs individually without using lens caps).
- Enter the monoscope signal and set to NTSC Full mode.
- Enter the service mode, and select "2170D-1".
- Adjust "0 VPOS" and "1 VSIZ" so that the picture is displayed in the center of the screen.
- Adjust "2VSZ0" for 1080i vertical size adjustment.

0 VPOS



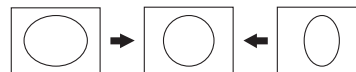
1 V-Size



- Select "2170D-2" and adjust "2 H-Size" so that the picture size is within the specification.

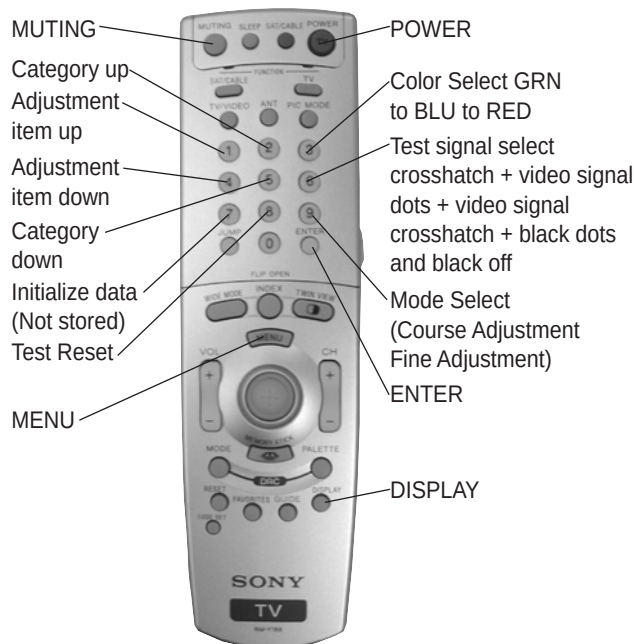
SPEC	Overscan Spec. = 9%	
Input Signal	H SIZE	V SIZE
Monoscope	15.6 ± 0.2 sq.	11.5 ± 0.2 sq.

2 H-Size



- Copy the data of the NTSC Full mode to the other wide screen mode and, if necessary, adjust in the other mode.

2-12-3. OPERATION METHOD FOR PROJECTOR ENGINE MODE



RM-Y188

1. FUNCTION OF KEYS ON COMMANDER

- 1 Changes adjustment item. (Item # moves up)
Marker moves clockwise from center to outside.
(In Fine Adjustment mode)
- 4 Changes adjustment item. (Item # moves down)
Marker moves counter clockwise from outside to center.
(In Fine Adjustment mode)
- 2 Changes adjustment category.
(Category # moves up)
- 5 Changes adjustment category.
(Category # moves down)

- Joystick** Changes data value. (Up or down)
Marker moves clockwise from center (up, down, right, and then left) to outside.
(In Fine Adjustment mode)
- 3 Changes adjustment color.
GRN → BLU → RED
 - 6 Displays or changes internal test signals.
crosshatch + external signal →
crosshatch + borderline →
crosshatch only →
dot only → off
 - 9 Switches adjustment mode.
Coarse adjustment model →
Fine adjustment mode

Press Switches marker moving method.

Joystick (In Fine Adjustment mode)

Pressing down on the joystick in Fine Adjustment mode switches between selecting and un-selecting a point.

When a point is selected, the cursor changes to that color to indicate the point is selected and can be adjusted. If a point is not selected the cursor is white.

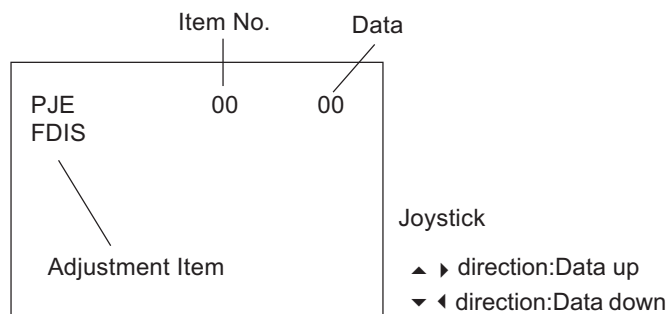
Joystick ▲ ▼ ◀ ▶ keys → 1 and 4 buttons

Commander Function

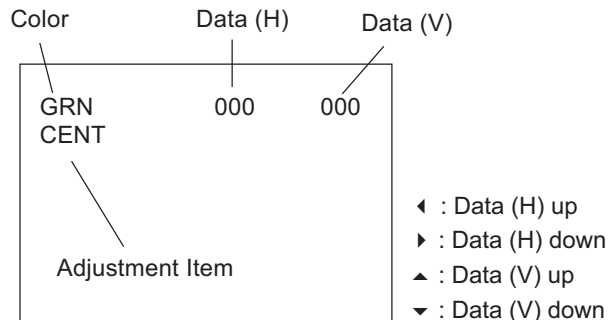
Buttons	Mode	Description
0 + ENTER	READ	Reads data to NVM.
MUTING+ENTER	WRITE	Writes data from NVM.
7 + ENTER	PJE INITIAL	Service data initialization. Not stored. (Be sure not to use usually)

2. OPERATION METHOD FOR COARSE ADJUSTMENT

1. Enter the service mode and select "PJE".
2. Press the "1" or "4" button on the remote commander to select the item, and then use the joystick to change the data.



3. Select "GRN CENT". When BLU or RED is displayed, press the "3" button on the remote commander to change the adjustment color in the order of GRN → BLU → RED.
4. In the GRN, BLU, or RED mode, move the joystick ▲ or ▼ to change the data in vertical direction, or ◀ or ▶ to change the data in a horizontal direction.

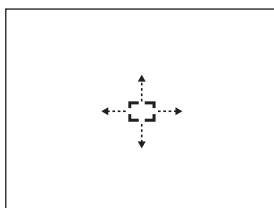


5. Before returning to the service mode, press the "MUTING" + "ENTER" buttons on the remote commander to write the data. (You must complete step 5 to write the data. If you omit step 5 the set data is returned to the data prior to the adjustment.)

3. OPERATION METHOD FOR FINE ADJUSTMENT

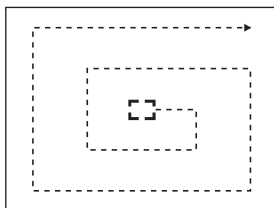
1. Enter the service mode and select "PJE".
2. Select FDIS and set the data to "01" so that the data at each position can be displayed in fine adjustment mode.
3. Press the "9" button on the remote commander and fine adjustment mode will be active where a green marker appears in the center of the screen. (In the case of GRN mode)
4. Press down on the joystick, and the marker color will be alternately switched between green (GRN mode) and white.
5. Press the "1" or "4" button on the remote commander or use the joystick to move the marker to the position to be adjusted, where fine adjustment can be made.

- * When the marker color is white:
(in this case, fine adjustment is disabled)



Use the joystick to move the marker up, down, left, or right.

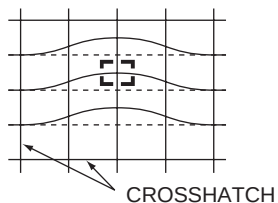
- * When the marker color is green:
(GRN mode)



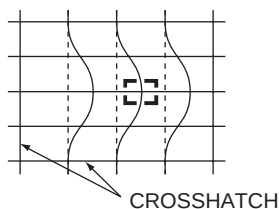
- 1 : Moves the marker clockwise from the center to the outside.
4 : Moves the marker counter clockwise from the outside to the center.

- * Fine adjustment can be made on the basis of a marker position using the joystick to move ▲ ▼ ◀ ▶.

Move joystick ▲ direction



Move joystick ▶ direction



6. Press the "9" button on the remote commander to return to the coarse adjustment mode.

2-13.PJE ADJUSTMENT (SUB DEFLECTION ADJUSTMENT)

Adjustment item	Adjustment type		
	G	R	B
	H/V*	H/V*	H/V*
CENT	O/O	O/O	O/O
SKEW	O/O	O/O	O/O
SIZE	O/O	O/O	O/O
LIN	O/O	O/O	O/O
KEY	-/O	-/O	-/O
PIN	O/O	O/O	O/O
MLIN	O/-	O/-	O/-
MSIZ	O/-	O/-	O/-

* H = Horizontal V = Vertical O = Yes - = No

Note: If the value is over the limit value, adjust these in the fine adjustment.

Coarse Data Limit Value:

CENT H	-135 TO + 205
CENT V	-150 TO + 190
SKEW	-75 TO + 75
SIZE H	-75 MAX
BLUE H LIN	-425 MIN
RED H LIN	+425 MAX
FINE DATA LIMIT	± 107
Except the extreme left & right outside columns which have no limit	

2-13-1.ADJUSTMENT FOR NTSC FULL MODE

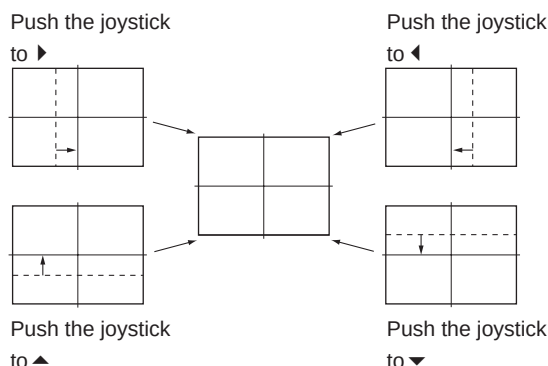
- The adjustment should be done in the numerical order given.

1) GREEN ADJUSTMENT

- Cover the red and blue CRT lenses with lens caps to allow only green to show (or use the method shown in the note below for turning off the CRTs individually without using lens caps).
- Enter the monoscope signal to set.
- Select the PJE mode.
- Press the "6" button on the remote commander to display the internal test signal (crosshatch).
- Select "GRN CENT", and adjust so that the pictures coincide in the center of screen.

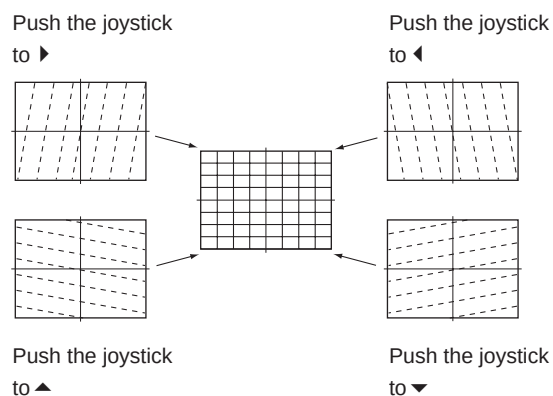
Note: If lens caps are unavailable, you can cut off the unnecessary color beams by controlling the service mode 2170P-2 1 RGBS.

GRN CENT (Horizontally/Vertically)



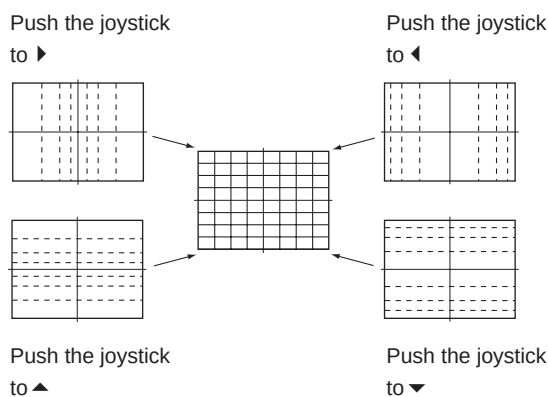
- Select "GRN SKEW", and correct the tilt of horizontal lines and vertical lines.

GRN SKEW (Horizontally/Vertically)



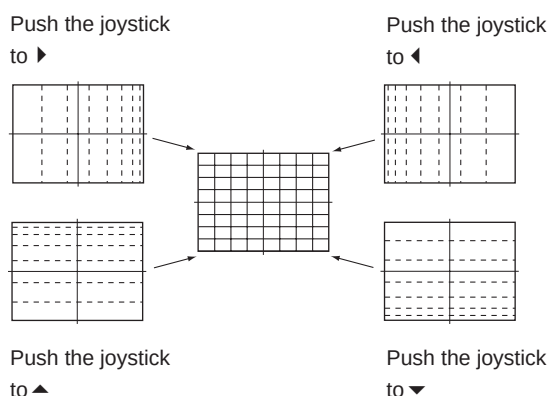
- Select "GRN SIZE", and adjust so that each distance from center to left end and to right end is equal. Adjust so that each distance from center to top and to bottom is equal.

GRN SIZE (Horizontally/Vertically)



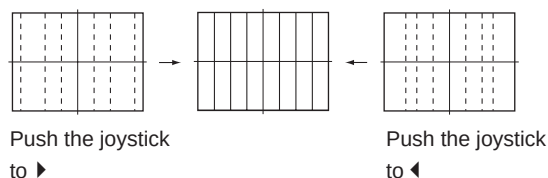
- Select "GRN LIN", and adjust so that each space at the right end and at the left end of screen is equal. Adjust so that each space at the top and at the bottom of screen is equal.

GRN LIN (Horizontally/Vertically)



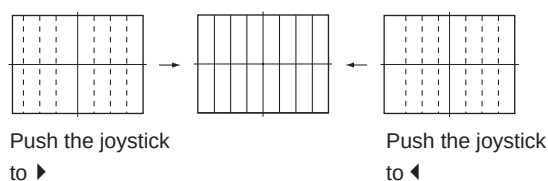
- Select "GRN MSIZ", and correct the space intervals for the horizontal section so the screen is equal.

GRN MSIZ (Horizontally)



- Select "GRN MLIN", and correct the sizes of the horizontal line so the center of the screen is symmetrical left and right.

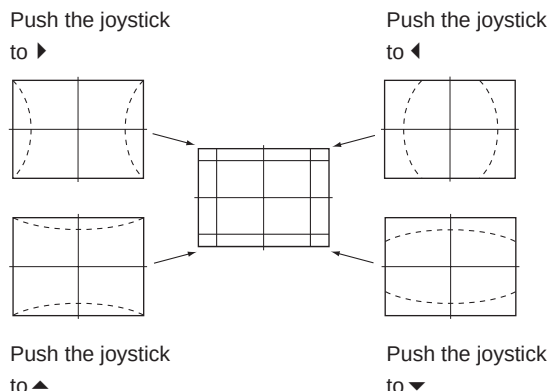
GRN MLIN (Horizontally)



Note: The SIZE and LIN, MSIZ and MLIN adjustments affect each other. If necessary, adjust these mutually.

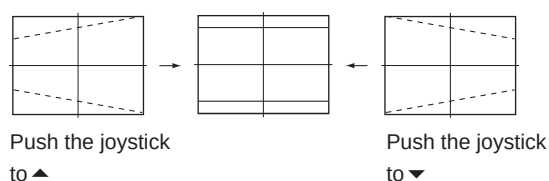
12. Select "GRN PIN", and adjust so that right and left vertical lines on the screen become straight. Adjust so that upper and lower horizontal lines on the screen become straight.

GRN PIN (Horizontally/Vertically)



13. Select "GRN KEY", and adjust so that upper and lower horizontal lines on the screen become parallel.

GRN KEY (Vertically)



Note: The VPIN and KEY adjustments affect each other.
If necessary, adjust these mutually.

14. Press the "9" button on the remote commander to enter fine adjustment mode.
15. Make the fine adjustment so that horizontal lines and vertical lines become straight.
16. Press the "9" button on the remote commander to return to coarse adjustment mode.

2) RED ADJUSTMENT

1. Cover the blue CRT lens with a lens caps to allow only the green and red to show (or use the method shown in the note below for turning off the CRTs individually without using lens caps).
2. Press the "3" button on the remote commander to select RED mode.
3. Adjust the following items so that red lines overlap with green lines.
 - RED CENT (horizontally/vertically)
 - RED SKEW (horizontally/vertically)
 - RED SIZE (horizontally/vertically)
 - RED LIN (horizontally/vertically)
 - RED MSIZ (horizontally)
 - RED MLIN (horizontally)
 - RED PIN (horizontally/vertically)
 - RED KEY (vertically)
4. Press the "9" button on the remote commander to enter fine adjustment mode.
5. Make the fine adjustment so that horizontal lines and vertical lines overlap with green lines.

6. Press the "9" button on the remote commander to return to coarse adjustment mode.

Note: If lens caps are unavailable, you can cut off the unnecessary color beams by controlling the service mode 2170P-2 1 RGBS.

3) BLUE ADJUSTMENT

1. Remove the lens cap from the blue picture lens to display all colors.
2. Press the "3" button on the remote commander to select BLU mode.
3. Adjust the following items so that blue lines overlap with green lines.
 - BLU CENT (horizontally/vertically)
 - BLU SKEW (horizontally/vertically)
 - BLU SIZE (horizontally/vertically)
 - BLU LIN (horizontally/vertically)
 - BLU PIN (horizontally/vertically)
 - BLU KEY (vertically)
4. Press the "9" button on the remote commander to enter fine adjustment mode.
5. Make the fine adjustment so that horizontal lines and vertical lines overlap with green and red lines.
6. Press the "9" button on the remote commander to return to coarse adjustment mode.

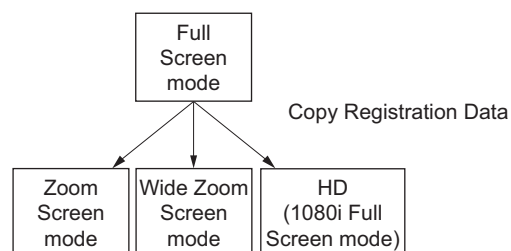
Note: When replacing CRTs, adjust the set-up adjustments (2-1 to 2-9) and the registration adjustment (2-12). When replacing multiple CRTs at the same time, replace and adjust them individually.

4) REGISTRATION DATA WRITING

1. After completing each adjustment of green, blue, and red for the NTSC Full mode press the "MUTING"+ "ENTER" buttons on the remote commander to write the registration data to the NVM.

2-13-2.COPYING ALL REGISTRATION DATA TO OTHER MODES

1. Make sure that the adjustment for NTSC Full mode are complete and the data have already been written.
2. Select the PJE mode.
3. Select ALCP and set the data to "01", and press the "MUTING"+ "ENTER" buttons on the remote commander.
4. The data from the NTSC Full mode is copied to all other modes.



5. Check in the other modes and adjust as demands.

Be sure to write data in each mode.

2-14.AUTO REGISTRATION OFFSETS

IMPORTANT

This adjustment must be performed after registration adjustment or after readjustment for any reason!

Once registration in all modes is satisfactory:

1. Darken the room environment near the set.
2. Enter service mode and individually write data ("MUTING" + "ENTER") for:

Full
Zoom
Wide Zoom
1080i

Important:

You must complete step 2 even if registration looks OK in these modes and there were not any adjustments made.

Note: If 1080i source is not available, 1080i data can be displayed by entering Twin Mode.

3. Select input of RF (with a signal) or Video1 - Video4 (with a signal), and enter Full Mode.

WARNING: DO NOT USE 1080i SIGNAL!

4. From service mode, select the PJE group.
5. To automatically store the offset values, press the "FLASH FOCUS" button on the front panel of the set.
(The offset value is now stored)
If FLASH FOCUS successfully calibrates, it displays "CALIBRATION OK."
If FLASH FOCUS does not successfully calibrate, an error message is displayed.(Refer to section 2-15)
6. Exit the service mode.
7. If the calibration was successful, press the "FLASH FOCUS" button out of service mode.
8. Confirm registration is OK in all modes.

2-15.AUTO REGISTRATION ERROR CODES

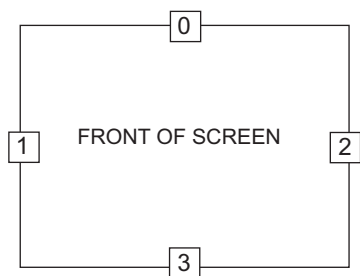
If an error code is displayed after the set has been correctly adjusted, check the following items: position, tilt and sizing. If any of these adjustments are off, even slightly, the auto-registration pattern will not hit the four sensors properly. This occurs when the internal generator patterns are being flashed on the screen for the sensors to read. Therefore, auto registration (called auto convergence) cannot operate properly, causing an error code to be displayed. In order for this function to operate properly, position, tilt and size must be adjusted properly.

ERROR CODE LIST

ERROR CODE	DESCRIPTION	NOTE
00	No Error	
10	Sensor 0 low output	Check sensor 0, connection/wiring, circuit, and pattern position (are patterns hitting sensor?) adjust 66 VUP, 70 HMID if necessary.
11	Sensor 1 low output	Check sensor 1, connection/wiring, circuit, and pattern position (are patterns hitting sensor?) adjust 69 HLE, 67 VMID if necessary.
12	Sensor 2 low output	Check sensor 2, connection/wiring, circuit, and pattern position (are patterns hitting sensor?) adjust 71 HRIV, 67 VMID if necessary.
13	Sensor 3 low output	Check sensor 3, connection/wiring, circuit, and pattern position (are patterns hitting sensor?) adjust 68 VLOW, 70 HMID if necessary.
20	Sensor 0 high output	Check sensor 0 and circuit.
21	Sensor 1 high output	Check sensor 1 and circuit.
22	Sensor 2 high output	Check sensor 2 and circuit.
23	Sensor 3 high output	Check sensor 3 and circuit.
30	V CENT or SKEW adjustment loop overflow	Check 67 VMID data and check registration condition.
31	H CENT or SKEW adjustment loop overflow	Check 70 HMID data and check registration condition.
32	H LIN or SIZE adjustment loop overflow	Check 69 HLE and 71 HRIV data and check registration condition.
40	V CENT regi data overflow	Check 67 VMID data and confirm V CENT data (all modes) is not near 511.
41	H CENT regi data overflow	Check 70 HMID data and confirm H CENT data (all modes) is not near 511.
42	V SKEW regi data overflow	Check 67 VMID data and confirm V SKEW data (all modes) is not near 511.
43	H SKEW regi data overflow	Check 70 HMID data and confirm H SKEW data (all modes) is not near 511.
44	H LIN regi data overflow	Check 69 HLE and 71 HRIV data and confirm H CENT data (all modes) is not near 511.
45	H SIZE regi data overflow	Check 69 HLE and 71 HRIV data and confirm H CENT data (all modes) is not near 511.
50	V CENT regi data overdraw	Check 67 VMID data and confirm V CENT data (all modes) is not near -512.
51	H CENT regi data overdraw	Check 70 HMID data and confirm H CENT data (all modes) is not near -512.
52	V SKEW regi data overdraw	Check 67 VMID data and confirm V SKEW data (all modes) is not near -512.
53	H SKEW regi data overdraw	Check 70 HMID data and confirm H SKEW data (all modes) is not near -512.
54	H LIN regi data overdraw	Check 69 HLE and 71 HRIV data and confirm H CENT data (all modes) is not near -512.
55	H SIZE regi data overdraw	Check 69 HLE and 71 HRIV data and confirm V CENT data (all modes) is not near -512.
60	CENT/SKEW calibration loop overflow	Check 70 HMID and 67 VMID data and check registration condition.
61	SIZE/LIN calibration loop overflow	Check 69 HLE, 71 HRIV, 66 VUP, and 68 VLOW data and check registration condition.
70	V CENT/SKEW ratio limit	Check sensors 1 and 2, connection/wiring, circuit, increase 65 RTLM.
71	H CENT/SKEW ratio limit	Check sensors 0 and 3, connection/wiring, circuit, increase 65 RTLM.
73	H SIZE/Lin ratio limit	Check sensors 1 and 2, connection/wiring, circuit, increase 65 RTLM.
80	SIZE Limit Error	Check that horizontal SIZE data is not near 64 SZLM.

* In the case of multiple errors, last error is displayed.

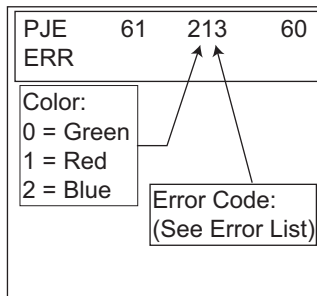
SENSOR POSITIONS



0: UPPER SENSOR
1: LEFT SENSOR
2: RIGHT SENSOR
3: LOWER SENSOR

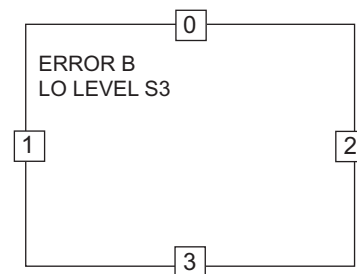
• ERROR CODE SCREEN DISPLAY

Error codes in normal (customer) mode are not displayed. You must enter PJE service mode to see the error code.



(Blue Sensor 3 Low Output)

In service mode, the error will be displayed in text format.



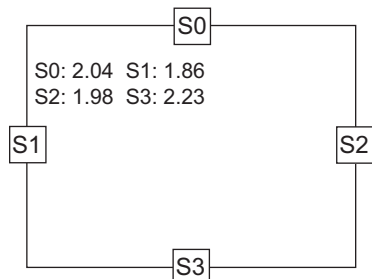
2-16.AUTO REGISTRATION DIAGNOSTICS

The TEST service item (PJE #72) can be used to determine if a sensor or sensor amplifier is working properly. It can also be used to check pattern positions.

133

Color: 0=Green, 1=Red, 2=Blue, 3=All
CS/ZL: 0=None, 1=Cent/Skew, 2=siZe/Lin, 3=Both
Display/Loop: 0=Display, 1:Loop

DISPLAY/ LOOP	CS/ZL	COLOR	ACTION
(0)	0	0	Normal calibration (no diagnostics).
(0)	X	X	Performs one adjustment cycle, then displays average peak voltages for the specified CS/ZL and Color.
(0)	3	3	Does nothing (can't display more than one CS/ZL or Color at a time.)
1	X	X	Adjusts specified CS/ZL and Color until a key is pressed. Useful for measuring signals with oscilloscope.



Sensor 0 peak voltage = 2.04 V, etc.

SECTION 3: SAFETY-RELATED ADJUSTMENTS

D BOARD

3-1. HV REGULATION CIRCUIT CHECK AND ADJUSTMENT

When replacing the following components marked with a  on the schematic diagram always check the HV regulation, and if necessary re-adjust.

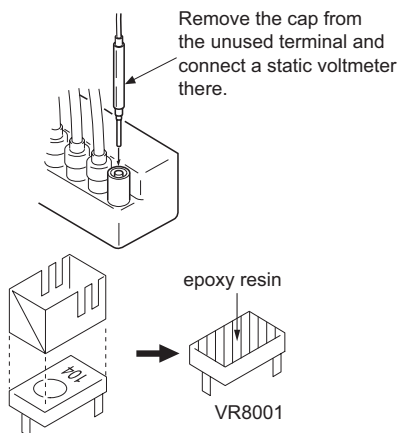
Part Replaced ()	Adjustment ()
A BOARD: HV Block, T8005 (FBT), T8004 (LOT), R8129, D8038, R8128, C8129, R8223, R8102, R8230, R8055, R8153, C8083, R8139, C8079, D8051, D8013, R8140, D8043, R8163, C8090, D8015. R8142, R8131, Q8021, IC8006, D Board	HV REGULATOR VR8001

OPERATION CHECK

1. Receive the all white signal.
2. Set PIC MAX/BRT CENT.
3. Confirm that the voltage between CN8015 ① PIN and GND is less than 7.80VDC.

HV REGULATION ADJUSTMENT

1. Connect a HV static voltmeter to the unconnected plug of the high-voltage block.
2. Power on the set.
3. Repeat steps 1 and 2 as above.
4. Confirm that the static voltmeter reading is $31.0 \pm 0.4V$.
5. If not, adjust with VR8001 to the specified value.
6. After adjustment, put the VR cover on VR8001 (as shown below) and apply sufficient amount of epoxy resin around VR8001.



3-2. HV HOLD DOWN CIRCUIT OPERATION CHECK AND ADJUSTMENT

When replacing the following components marked with a  on the schematic diagram always check the hold-down voltage and re-adjust when necessary.

Part Replaced ()	Adjustment ()
A BOARD: HV Block, T8005 (FBT), T8004 (LOT), C8123, C8124, Q8043, Q8035, C8104, R8171, D8036, R8043, R8035, C8088, C8086, R8159, D8022, C8054, R8166, C8100, IC8008, D8019, D8020, R8201, C8118, D8028, R8196, FB8001, D Board	HV HOLD DOWN VR8002

OPERATION CHECK

1. Receive the dot signal.
2. Set PIC MIN/BRT MIN.
3. Confirm that the voltage between cathode of D8038 (JW171) and GND is more than 23.0V DC.
4. Using an external DC Power supply, apply the voltage shown below between cathode of D8038 (JW171) on "D" and GND, then confirm that the HV-Prot circuit works. (Raster disappears)
Apply DC voltage: Less than 29.05V DC.

HV HOLD-DOWN ADJUSTMENT

1. Connect a HV static voltmeter to the unconnected plug of the high-voltage block.
2. Power on the set.
3. Connect an external 10kΩ VR at CN8015 and adjust this VR so that the high voltage is 34.50kV.
4. Adjust VR8002 to the point that the HV-Prot circuit works (Raster disappears) at $34.50 \pm 0.50kV$ reading on the static voltmeter.
5. After adjustment, put the VR cover on VR8002 and apply sufficient amount of epoxy resin around VR8002 as the same manner for VR8001.

G BOARD

3-3. +B MAX VOLTAGE CONFIRMATION

The following adjustments should always be performed when replacing IC6503 R6518.

1. Supply 130VAC to variable autotransformer.
2. Receive dot signal pattern and set the PICTURE and BRIGHTNESS settings to their minimum.
3. Confirm the voltage of TP +B 135V is less than 137.0Vdc.
4. If step 3 is not satisfied, replace IC6503 and repeat steps 1-3.

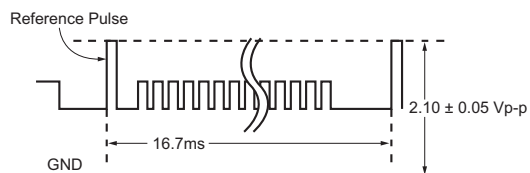
3-4. +B OVP CONFIRMATION

1. Add to low voltage power supply between to TP. 6502 and ground.
2. Supply 120VAC to variable autotransformer.
3. Power on the Set and receive dot signal pattern.
4. Set the PICTURE and BRIGHTNESS settings.
5. Check the OVP is activated.

Operate :less than 2.50V

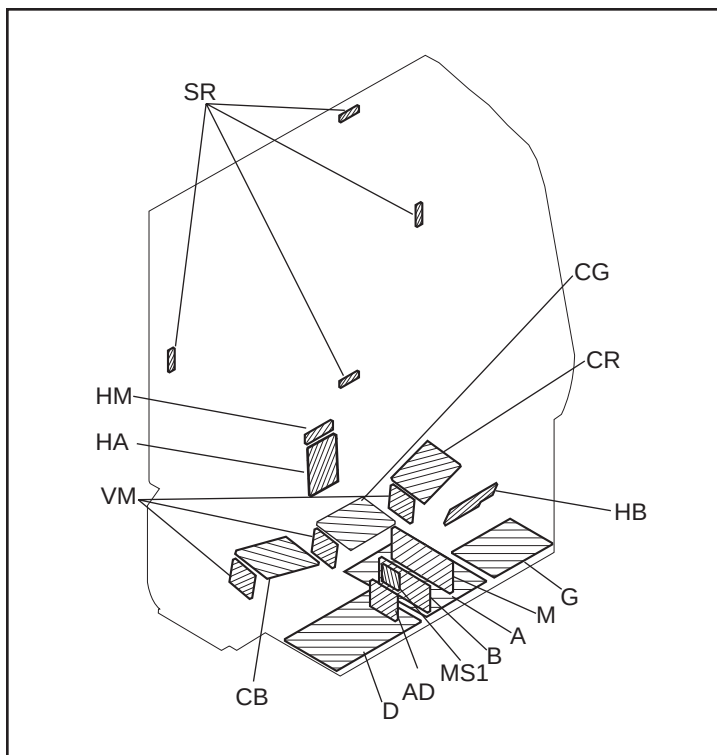
4-5. BLUE OFFSET ADJUSTMENT

1. Receive the all black (1080i, component) signal with VIDEO 5 input, and set PICTURE to maximum.
2. Connect an oscilloscope between CN507 ⑦ pin (B) on the (A board) and ground.
3. Set in the service mode and select the category "2170D-2".
4. Adjust "3 SLIN" so that the waveform level is $2.10 \pm 0.05\text{Vpp}$.
5. After completing the adjustments, write the data into memory.
"MUTING" → "ENTER".
6. Receive the RF signal and change the wide screen mode to "Wide Zoom". Copy the same data to "3 SLIN".



SECTION 5: DIAGRAMS

5-1. CIRCUIT BOARDS LOCATION



5-2. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS INFORMATION

All capacitors are in μF unless otherwise noted. pF : μF 50WV or less are not indicated except for electrolytics and tantalums.

All electrolytics are in 50V unless otherwise specified.

All resistors are in ohms. K=1000, M=1000k

Indication of resistance, which does not have one for rating electrical power, is as follows: Pitch : 5mm

Rating electrical power : $\frac{1}{4}$ W

$\frac{1}{4}$ W in resistance, $\frac{1}{10}$ W and $\frac{1}{8}$ W in chip resistance.

: nonflammable resistor.

: fusible resistor.

: internal component.

: panel designation and adjustment for repair.

: earth ground

: earth-chassis

All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

Readings are taken with a NTSC color-bar signal input.

Readings are taken with a 10M digital multimeter.

Voltages are DC with respect to ground unless otherwise noted.

Voltage variations may be noted due to normal production tolerances.

All voltages are in V.

S : Measurement impossibility.

: B+ line

: B-line. (Actual measured value may be different).

: signal path. (RF)

Circled numbers are waveform references.

The components identified by in this basic schematic diagram have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be necessary, replace only with the value originally used.

When replacing components identified by , make the necessary adjustments as indicated. If the results do not meet the specified value, change the component identified by and repeat the adjustment until the specified value is achieved.

(Refer to adjustments in Sections 3-1 and 3-2.)

When replacing the parts listed in the table below, it is important to perform the related adjustments.

Part Replaced ()	Adjustment ()
A BOARD: HV Block, T8005 (FBT), T8004 (LOT), R8129, D8038, R8128, C8129, R8223, R8102, R8230, R8055, R8153, C8083, R8139, C8079, D8051, D8013, R8140, D8043, R8163, C8090, D8015, R8142, R8131, Q8021, IC8006, D Board	HV REGULATOR VR8001
A BOARD: HV Block, T8005 (FBT), T8004 (LOT), C8123, C8124, Q8043, Q8035, C8104, R8171, D8036, R8043, R8035, C8088, C8086, R8159, D8022, C8054, R8166, C8100, IC8008, D8019, D8020, R8201, C8118, D8028, R8196, FB8001, D Board	HV HOLD DOWN VR8002

REFERENCE INFORMATION

RESISTOR	: RN	METAL FILM
	: RC	SOLID
	: FPRD	NONFLAMMABLE CARBON
	: FUSE	NONFLAMMABLE FUSIBLE
	: RW	NONFLAMMABLE WIREWOUND
	: RS	NONFLAMMABLE METAL OXIDE
COIL	: RB	NONFLAMMABLE CEMENT
	: ※	ADJUSTMENT RESISTOR
CAPACITOR	: LF-8L	MICRO INDUCTOR
	: TA	TANTALUM
	: PS	STYROL
	: PP	POLYPROPYLENE
	: PT	MYLAR
	: MPS	METALIZED POLYESTER
	: MPP	METALIZED POLYPROPYLENE
	: ALB	BIPOLAR
	: ALT	HIGH TEMPERATURE
	: ALR	HIGH RIPPLE

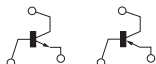
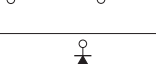
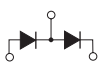
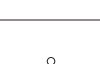
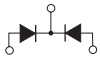
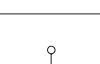
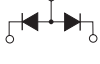
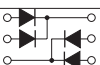
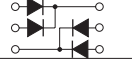
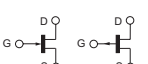
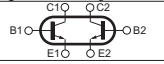
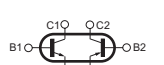
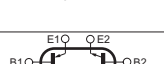
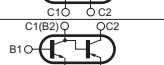
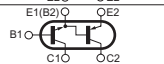
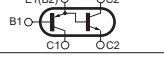
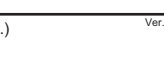
The components identified by shading and  symbol are critical for safety. Replace only with part number specified.

The symbol  indicates a fast operating fuse and is displayed on the component side of the board. Replace only with fuse of the same rating as marked.

Les composants identifiés par un trame et une marque  sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

Le symbole  indique une fusible a action rapide. Doit etre remplace par une fusible de meme yaleur, comme maque.

Terminal name of semiconductors in silk screen
printed circuit (*)

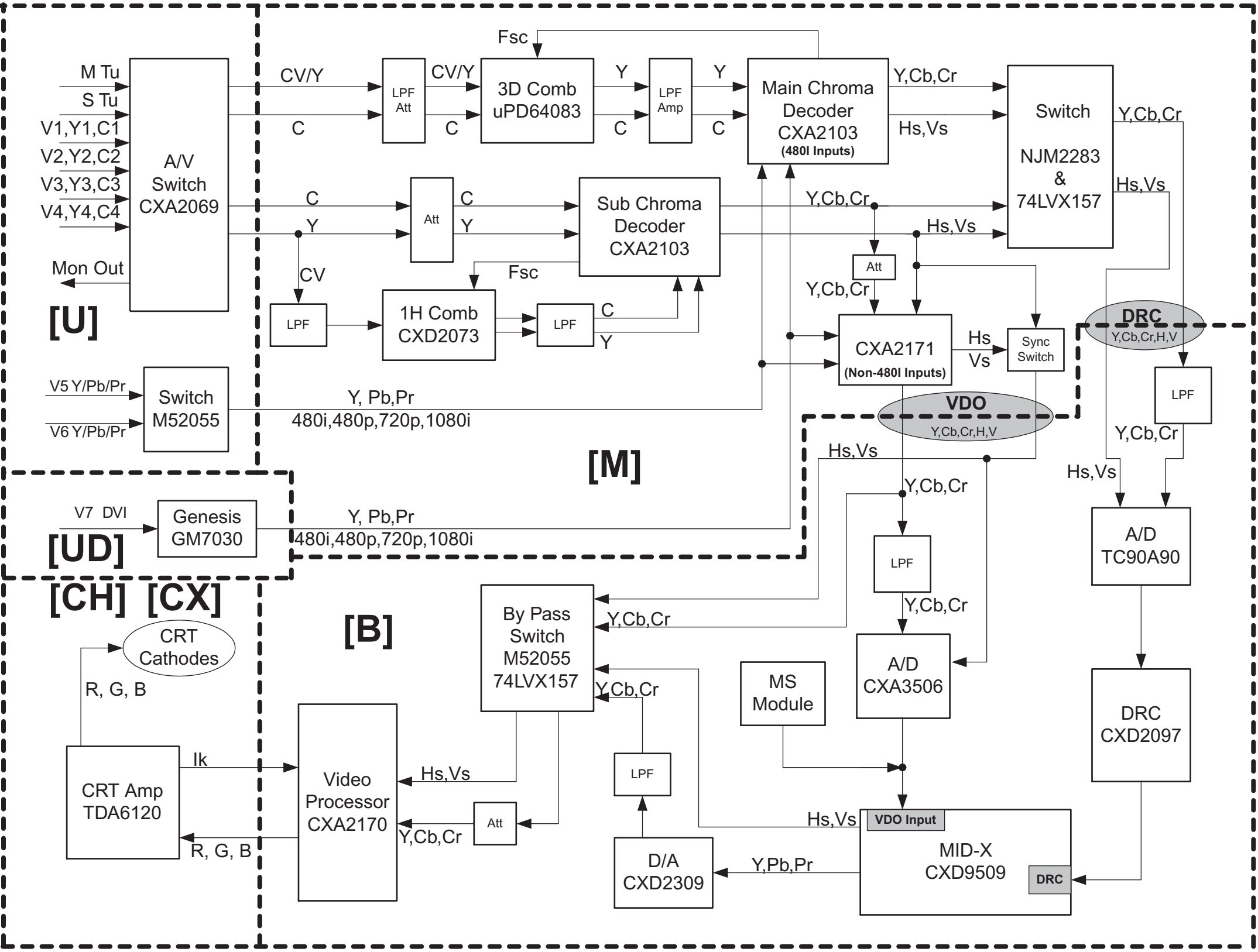
	Device	Printed symbol	Terminal name	Circuit
①	Transistor		Collector Base Emitter	
②	Transistor		Collector Base Emitter	
③	Diode		Cathode Anode	
④	Diode		Cathode Anode (NC)	
⑤	Diode		Cathode Anode (NC)	
⑥	Diode		Common Anode Cathode	
⑦	Diode		Common Anode Cathode	
⑧	Diode		Common Anode Anode	
⑨	Diode		Common Anode Anode	
⑩	Diode		Common Cathode Cathode	
⑪	Diode		Common Cathode Cathode	
⑫	Diode		Anode Anode Cathode Anode	
⑬	Transistor (FET)		Drain Source Gate	
⑭	Transistor (FET)		Drain Source Gate	
⑮	Transistor (FET)		Source Drain Gate	
⑯	Transistor		Emitter Collector Base	
⑰	Transistor		C2(B1)E1 E2(B2)C1	
⑱	Transistor		C1(B2)E2 E1(B1)C2	
⑲	Transistor		C1 B2 E2 E1 B1 C2	
⑳	Transistor		C1 B2 E2 E1 B1 C2	
㉑	Transistor		E2 B1 E1 C2 C1(B2)	
㉒	Transistor		(B2) B1 E1 E2 C1 C2	
㉓	Transistor		(B2) E2 E1 B1 C2 C1	
-	Discrete semiconductor			

(Chip semiconductors that are not actually used are included.)

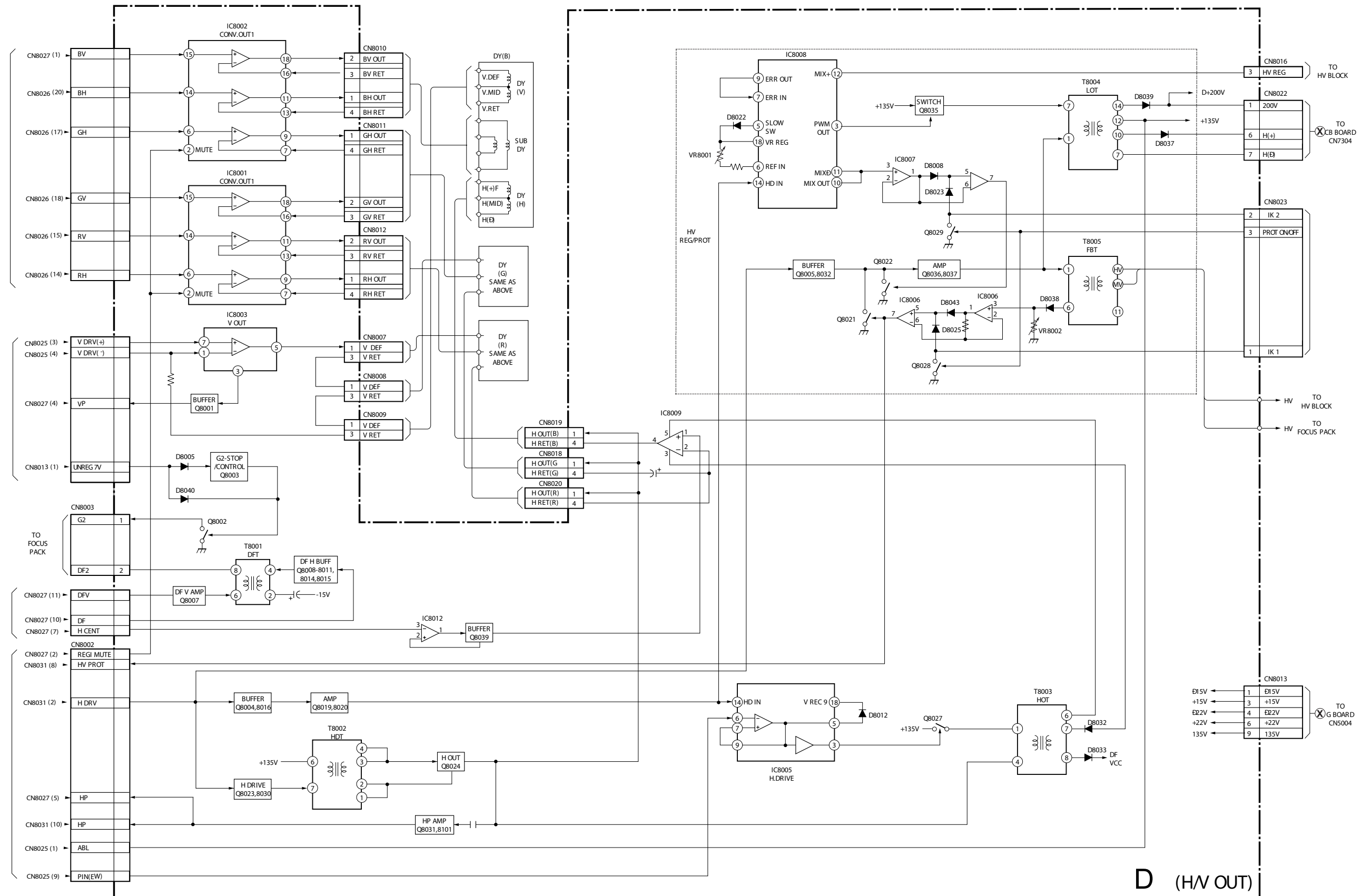
Ver.1.6

5-3. BLOCK DIAGRAMS

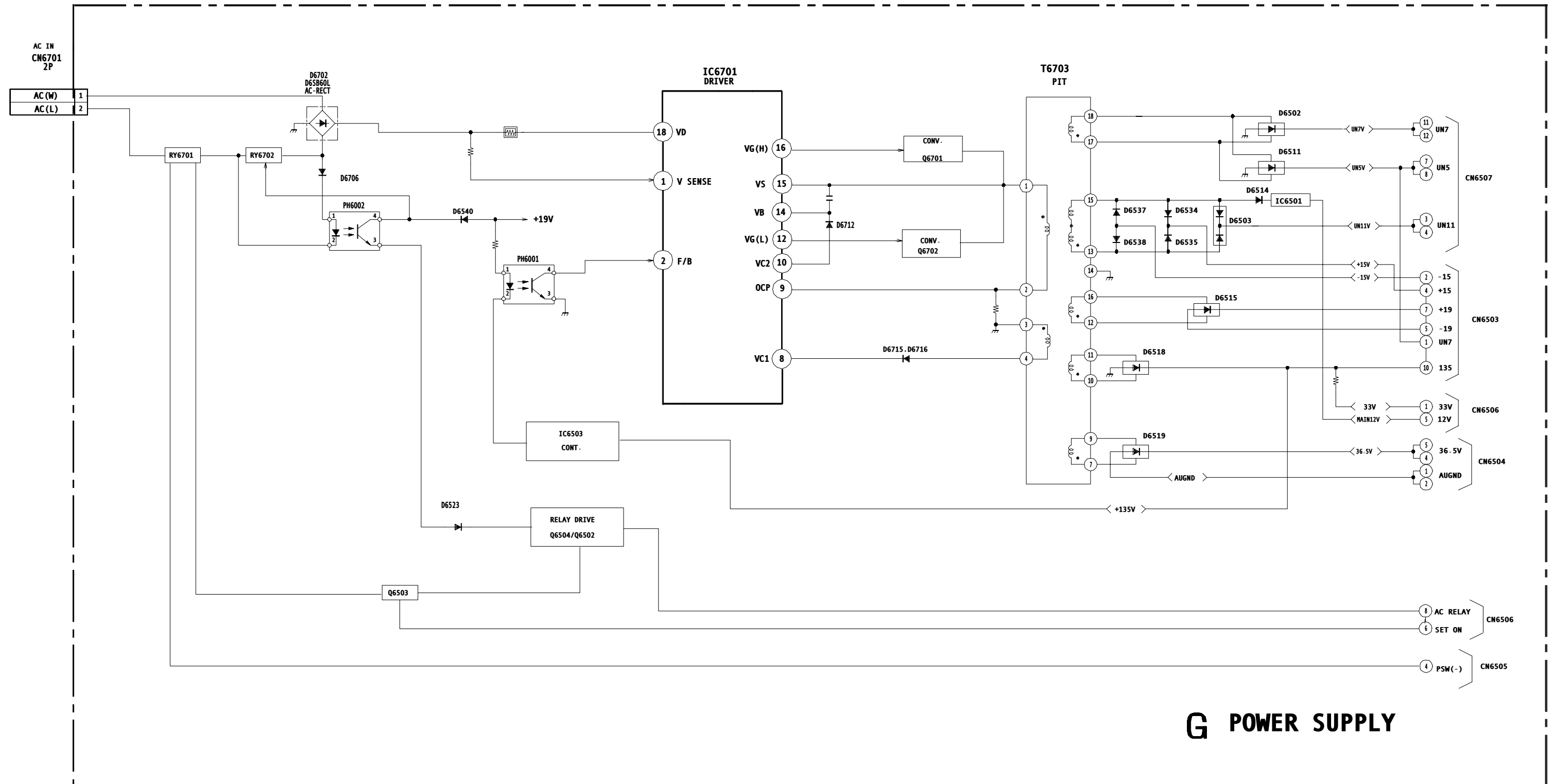
SIGNAL FLOW BLOCK DIAGRAM



DEFLECTION BLOCK DIAGRAM

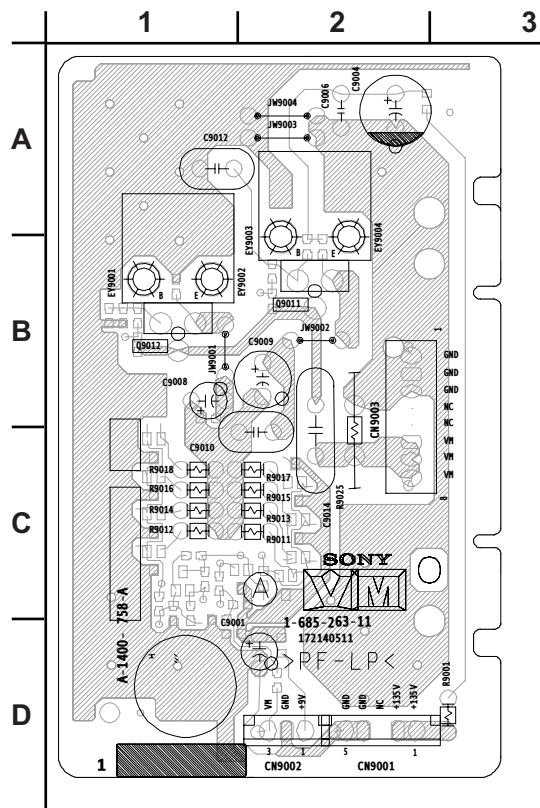


POWER SUPPLY BLOCK DIAGRAM

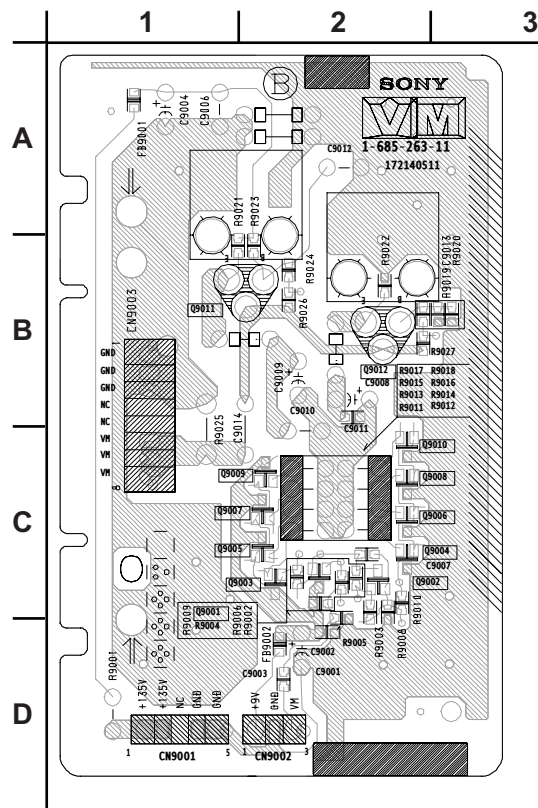




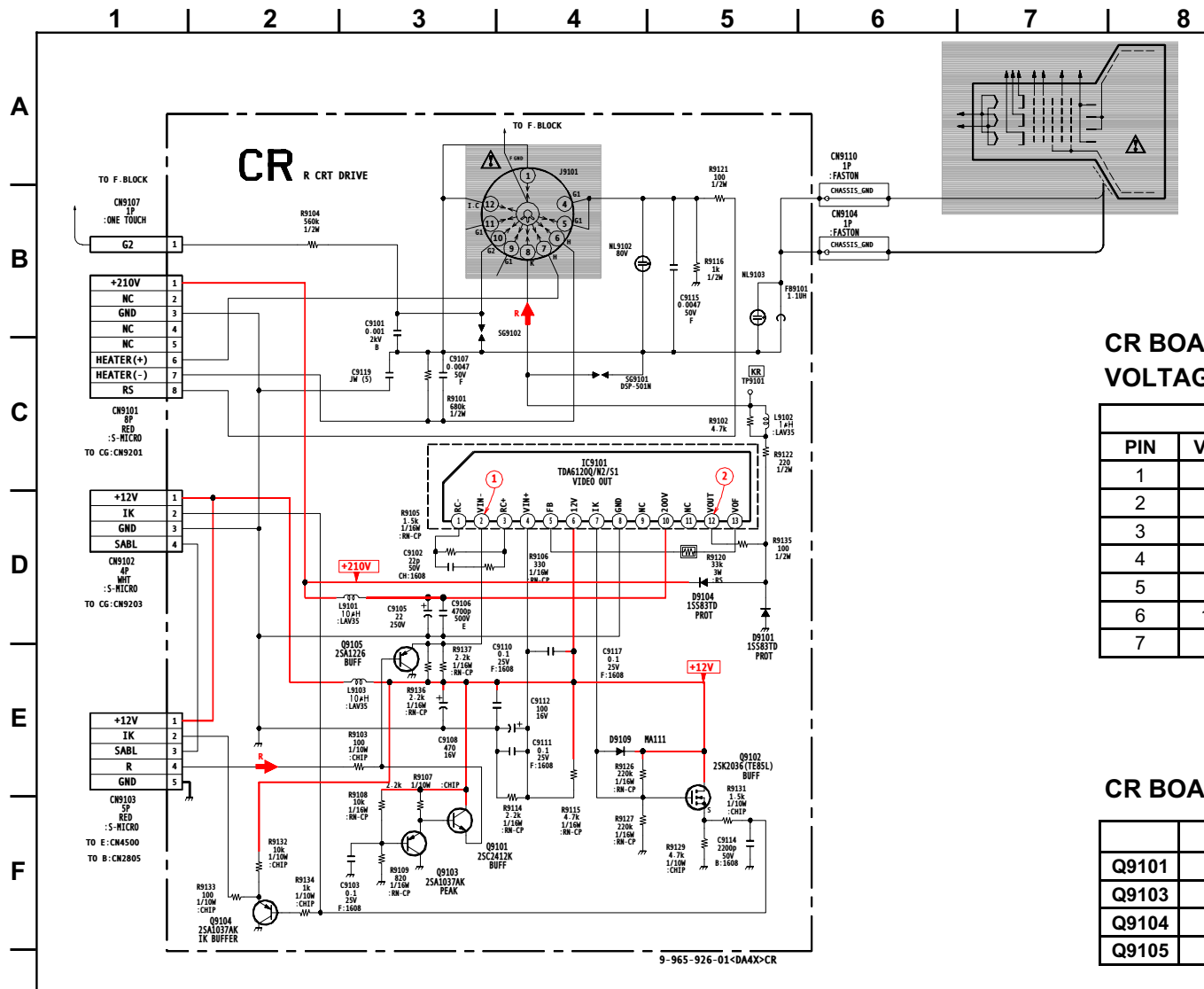
[VELOCITY MOD]
COMPONENT SIDE



CONDUCTOR SIDE



CR BOARD SCHEMATIC DIAGRAM



CR BOARD IC
VOLTAGE TABLE

IC9101			
PIN	VOLT	PIN	VOLT
1	0.0	8	GND
2	3.5	9	N/C
3	5.0	10	200.0
4	3.5	11	N/C
5	0.0	12	144.4
6	12.0	13	2.2
7	9.4	All voltages are in V.	

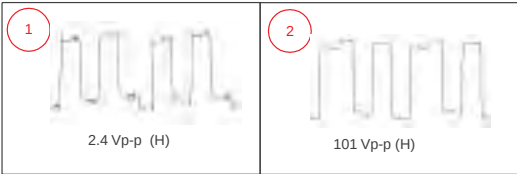
CR BOARD TRANSISTOR TABLE

	B	C	E
Q9101	2.2	12.0	2.7
Q9103	1.6	GND	2.2
Q9104	8.4	GND	8.5
Q9105	2.8	GND	3.7

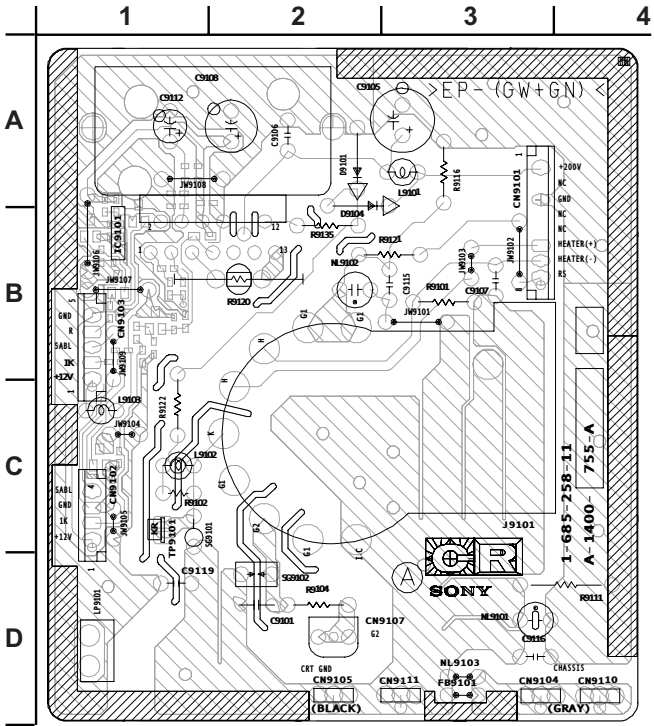
	D	G	S
Q9102	12.0	8.3	8.9

All voltages are in V.

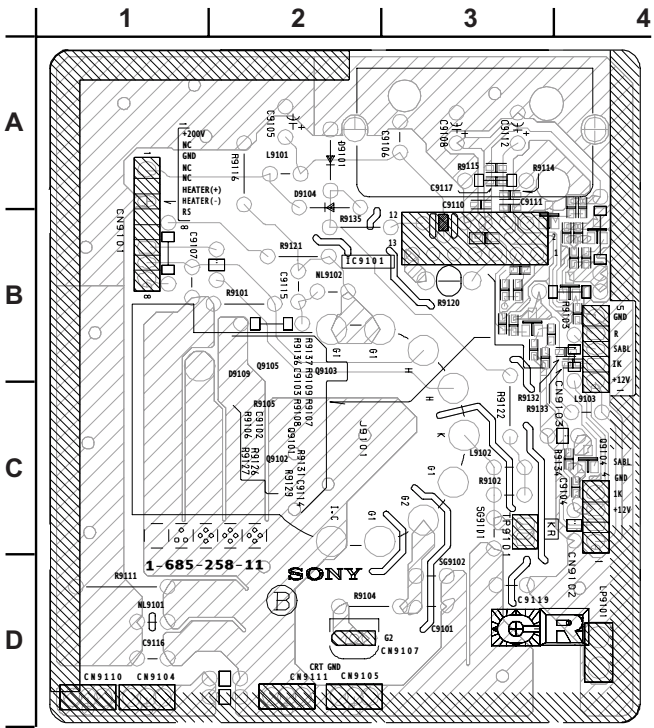
CR BOARD WAVEFORMS



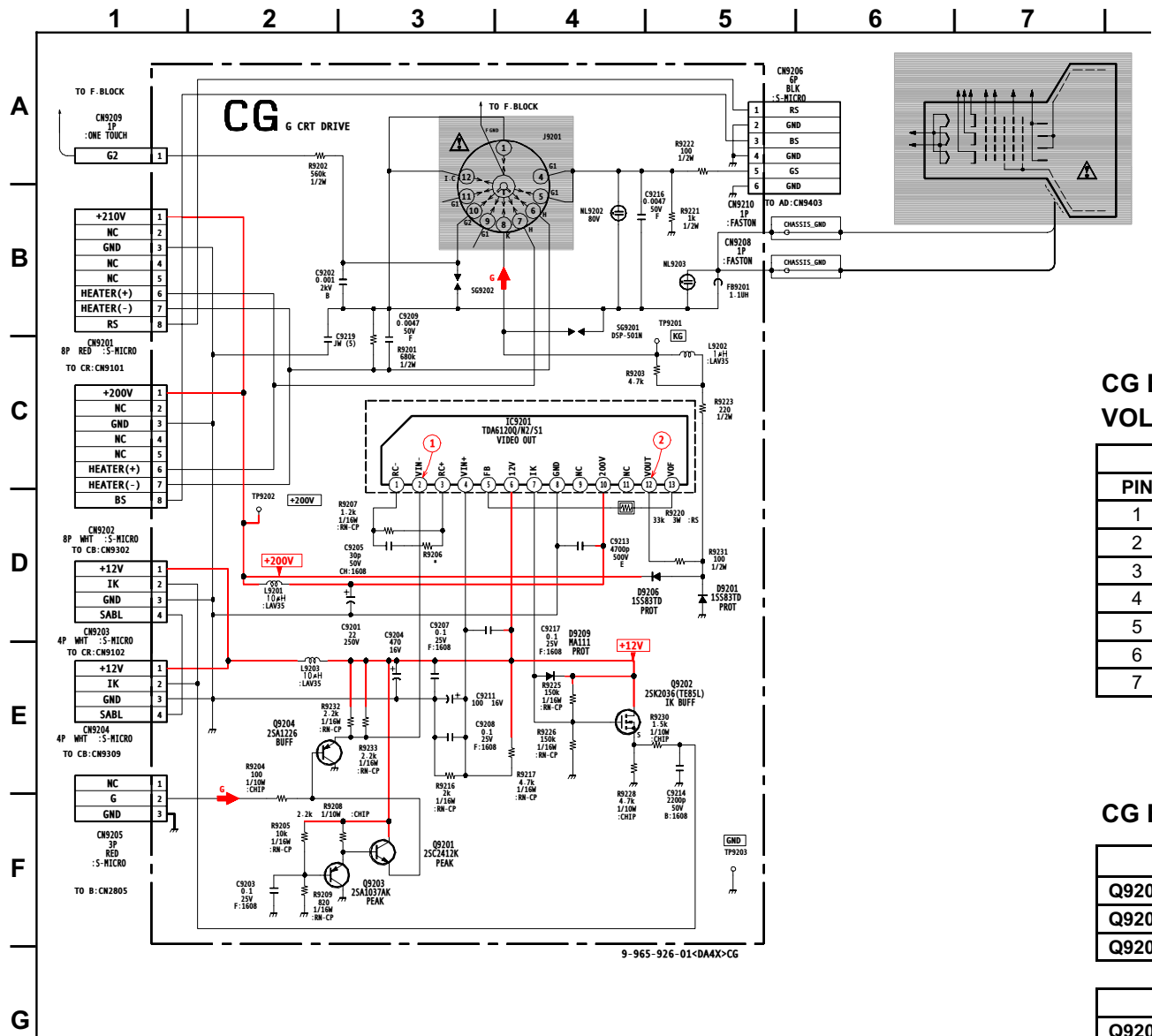
CR [R CRT DRIVE]
COMPONENT SIDE



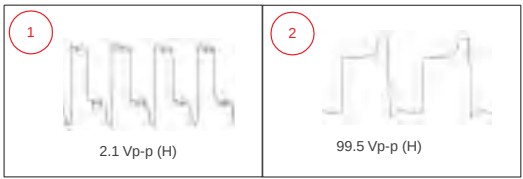
CONDUCTOR SIDE



CG BOARD SCHEMATIC DIAGRAM



CG BOARD WAVEFORMS



CG BOARD IC
VOLTAGE TABLE

IC9201			
PIN	VOLT	PIN	VOLT
1	0.0	8	GND
2	3.5	9	N/C
3	5.0	10	200.0
4	3.5	11	N/C
5	0.0	12	144.4
6	12.0	13	2.2
7	9.4	All voltages are in V.	

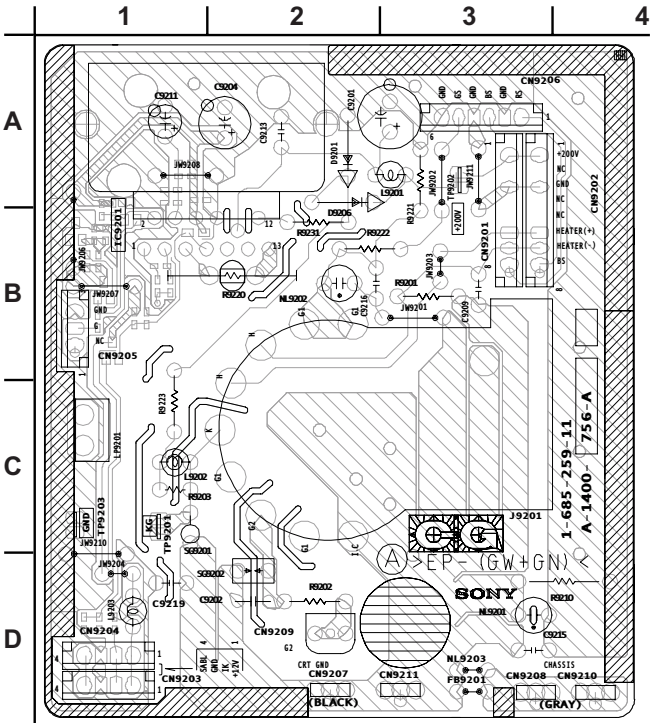
CG BOARD TRANSISTOR TABLE

	B	C	E
Q9201	2.2	12.0	2.7
Q9203	1.6	GND	2.2
Q9204	2.8	GND	3.7

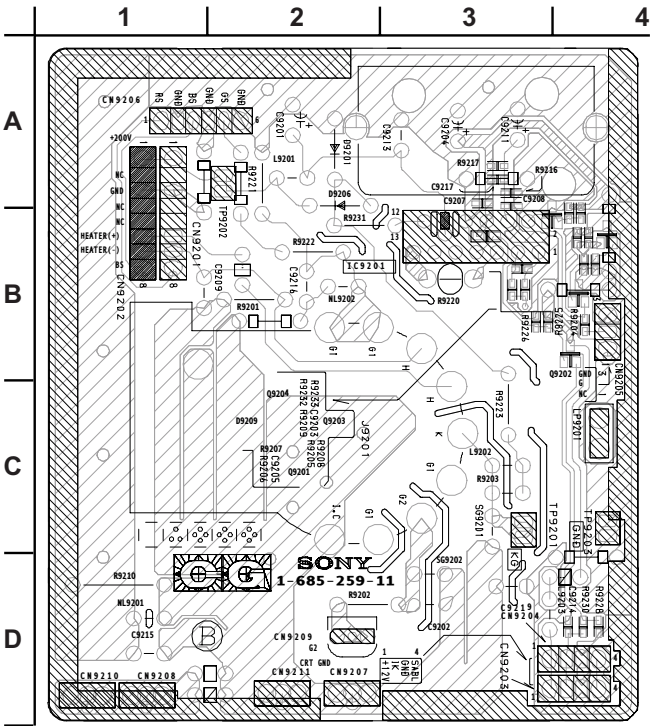
	D	G	S
Q9202	12.0	8.7	9.3

All voltages are in V.

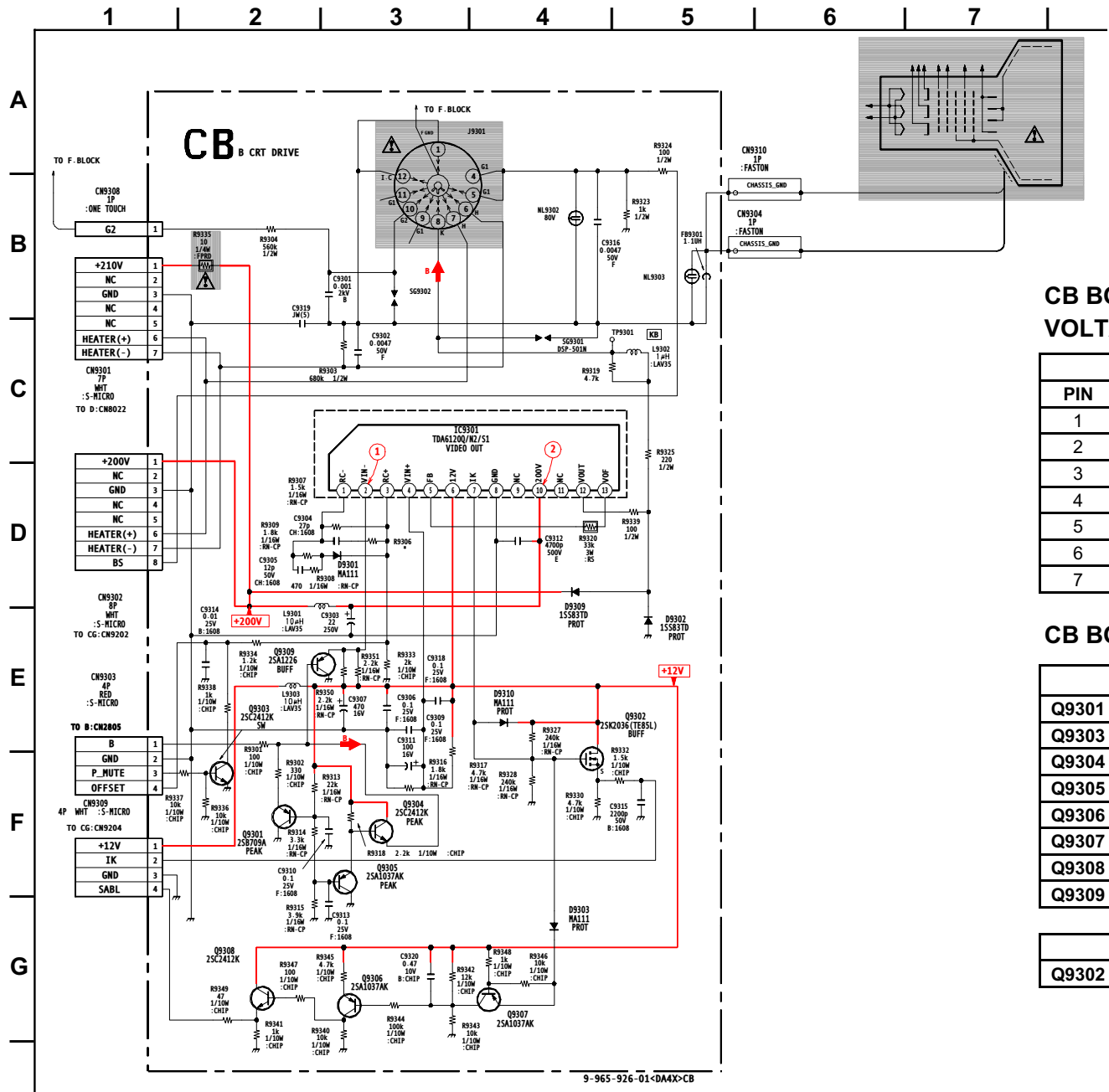
CG [G CRT DRIVE]
COMPONENT SIDE



CONDUCTOR SIDE



CB BOARD SCHEMATIC DIAGRAM



CB BOARD IC
VOLTAGE TABLE

IC9301			
PIN	VOLT	PIN	VOLT
1	0.0	8	GND
2	3.5	9	N/C
3	5.0	10	200.0
4	3.5	11	N/C
5	0.0	12	144.4
6	12.0	13	2.2
7	9.4	All voltages are in V.	

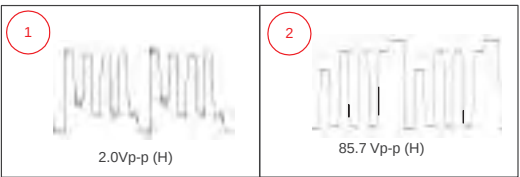
CB BOARD TRANSISTOR TABLE

	B	C	E
Q9301	3.9	GND	2.7
Q9303	0.0	0.0	GND
Q9304	2.3	12.0	2.7
Q9305	1.7	GND	2.3
Q9306	7.3	7.7	7.8
Q9307	11.7	5.4	11.8
Q9308	7.7	11.7	7.0
Q9309	2.8	GND	3.7

	D	G	S
Q9302	12.0	8.5	9.2

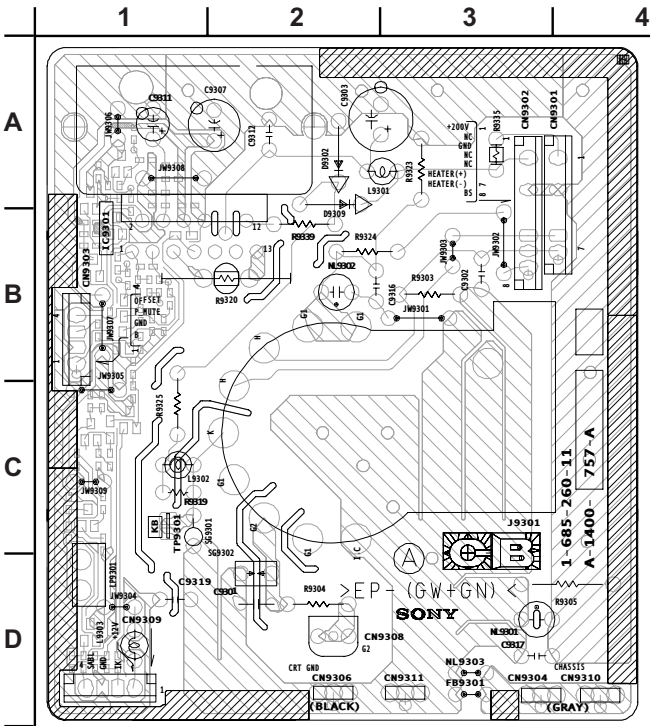
All voltages are in V.

CB BOARD WAVEFORMS

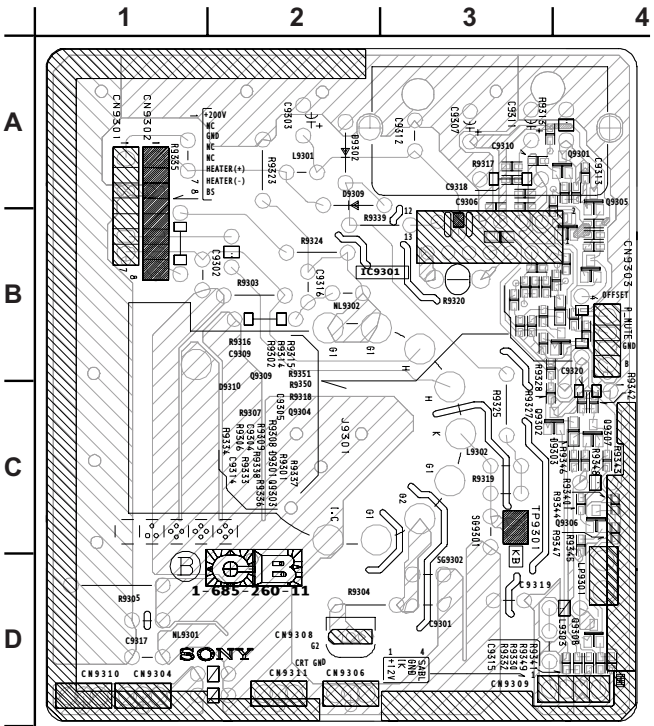


CB

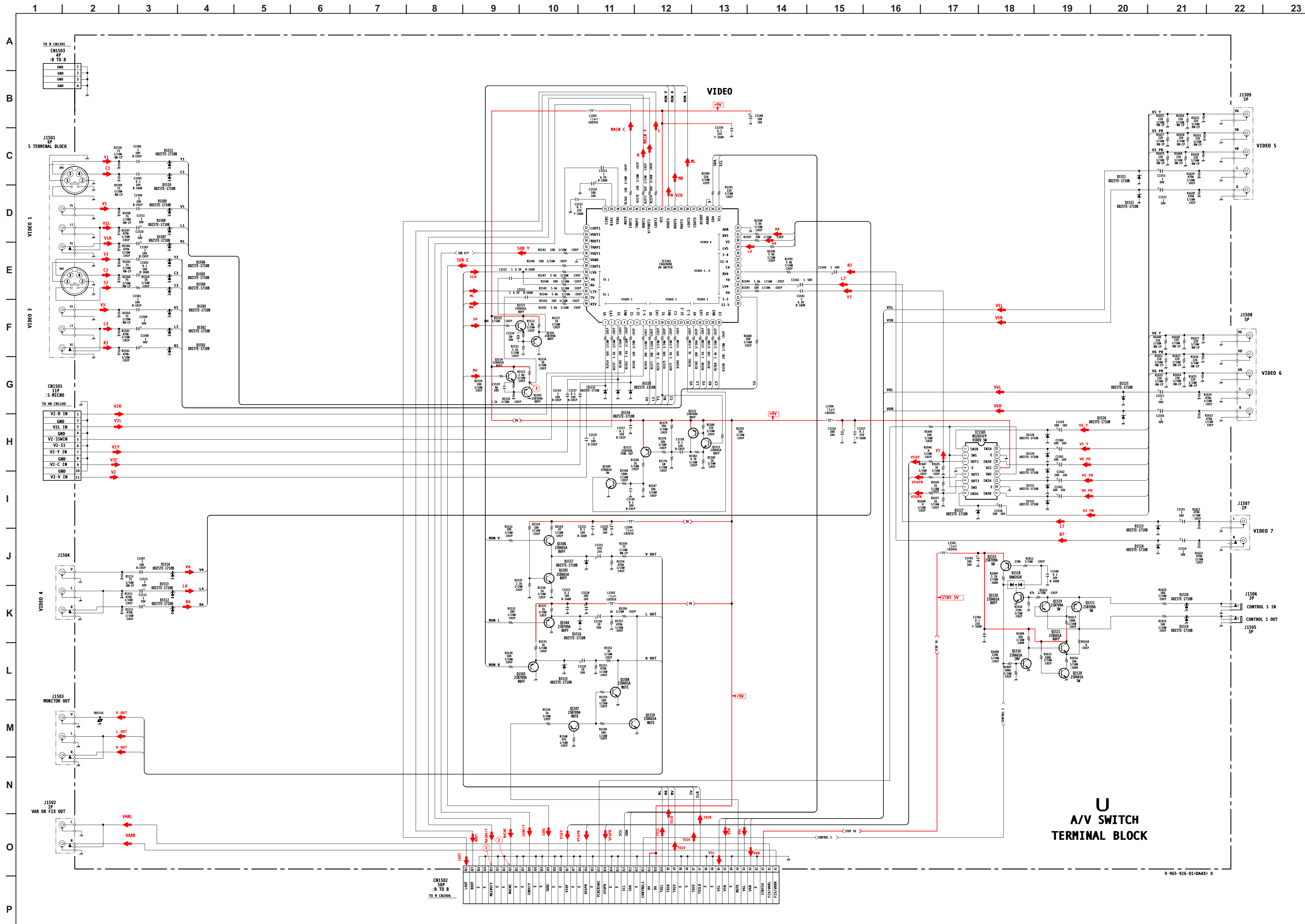
[B CRT DRIVE]
COMPONENT SIDE



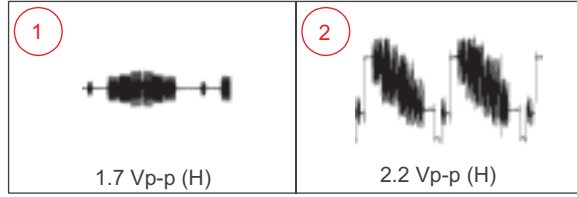
CONDUCTOR SIDE



U BOARD SCHEMATIC DIAGRAM



U BOARD WAVEFORMS



U BOARD IC VOLTAGE LIST

IC1502		21	4.9	43	4.5	IC1505	
PIN	VOLT	22	3.9	44	4.3	PIN	VOLT
1	3.9	23	4.5	45	4.5	1	4.7
2	4.5	24	N/C	46	N/C	2	0.0
3	3.9	25	4.5	47	4.4	3	3.2
4	4.5	26	N/C	48	N/C	4	GND
5	4.5	27	N/C	49	4.9	5	3.2
6	N/C	28	N/C	50	4.5	6	3.2
7	4.9	29	4.5	51	4.5	7	0.0
8	4.3	30	3.9	52	N/C	8	4.6
9	4.5	31	4.5	53	4.4	9	4.6
10	3.9	32	GND	54	N/C	10	GND
11	4.5	33	4.6	55	N/C	11	4.7
12	4.5	34	4.6	56	4.1	12	0.0
13	N/C	35	GND	57	GND	13	9.0
14	4.9	36	N/C	58	4.4	14	4.7
15	3.9	37	N/C	59	4.5	15	GND
16	4.5	38	4.5	60	5.0	16	4.7
17	3.9	39	N/C	61	4.5		
18	4.5	40	4.5	62	4.5		
19	4.5	41	4.4	63	4.9		
20	N/C	42	9.0	64	4.5		

All voltages are in V.

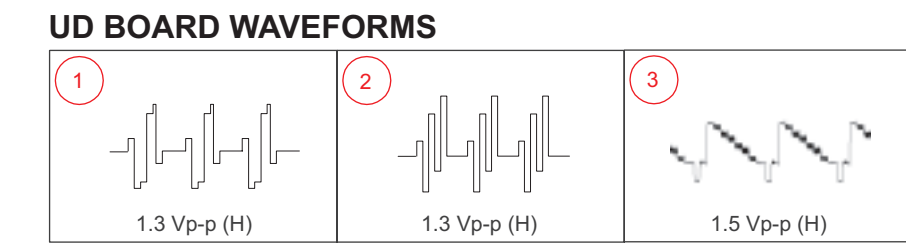
U BOARD TRANSISTOR TABLE

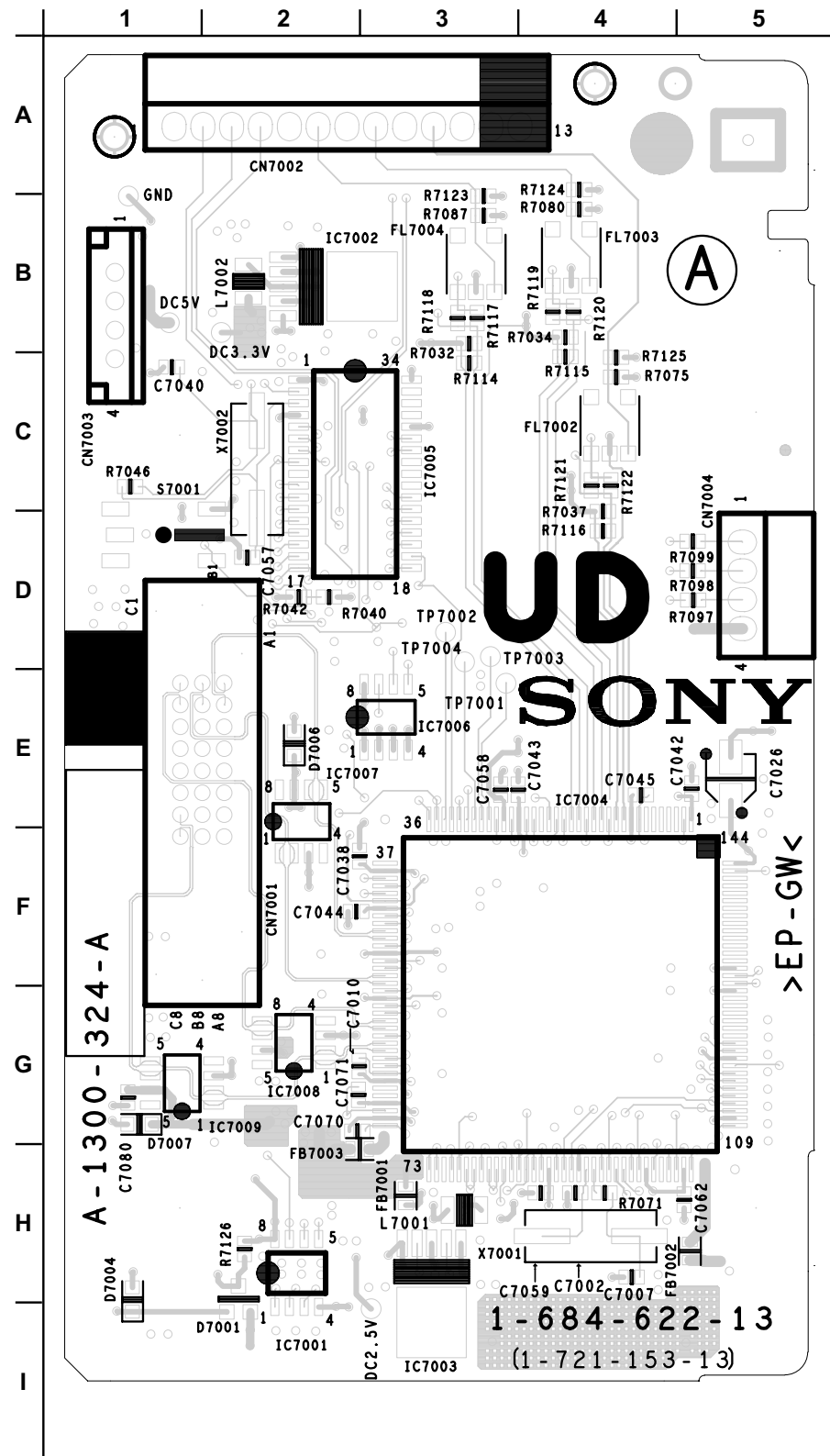
	B	C	E
Q1501	2.0	GND	2.7
Q1502	3.3	GND	4.0
Q1503	4.5	GND	5.2
Q1504	4.5	GND	5.2
Q1505	1.6	3.7	0.9
Q1506	4.4	8.3	3.8
Q1507	0.0	0.0	0.0
Q1508	0.0	0.0	GND
Q1509	0.0	4.9	GND
Q1510	0.0	0.0	GND
Q1511	8.5	0.0	9.0
Q1512	8.4	5.3	9.0
Q1513	3.8	8.4	3.2
Q1515	4.9	4.2	5.0
Q1516	0.6	0.1	GND
Q1518	0.0	4.9	GND
Q1519	5.0	0.0	0.0
Q1520	0.6	0.0	GND
Q1521	0.1	5.0	0.0
Q1522	5.0	0.0	0.0
Q1523	4.5	9.0	3.9
Q1524	6.5	9.0	3.9

All voltages are in V.

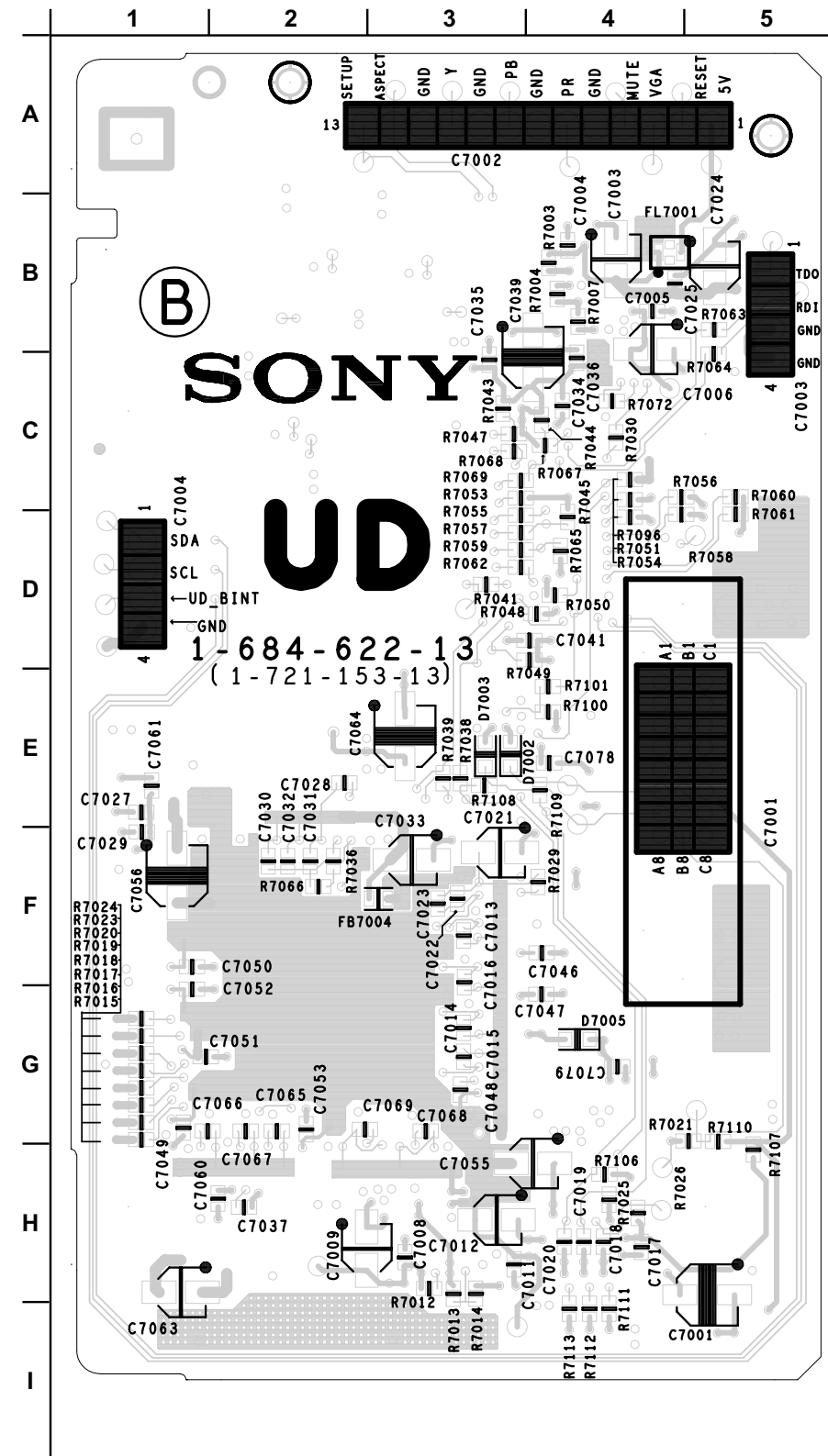
U
A/V SWITCH
TERMINAL BLOCK







[CONDUCTOR SIDE]





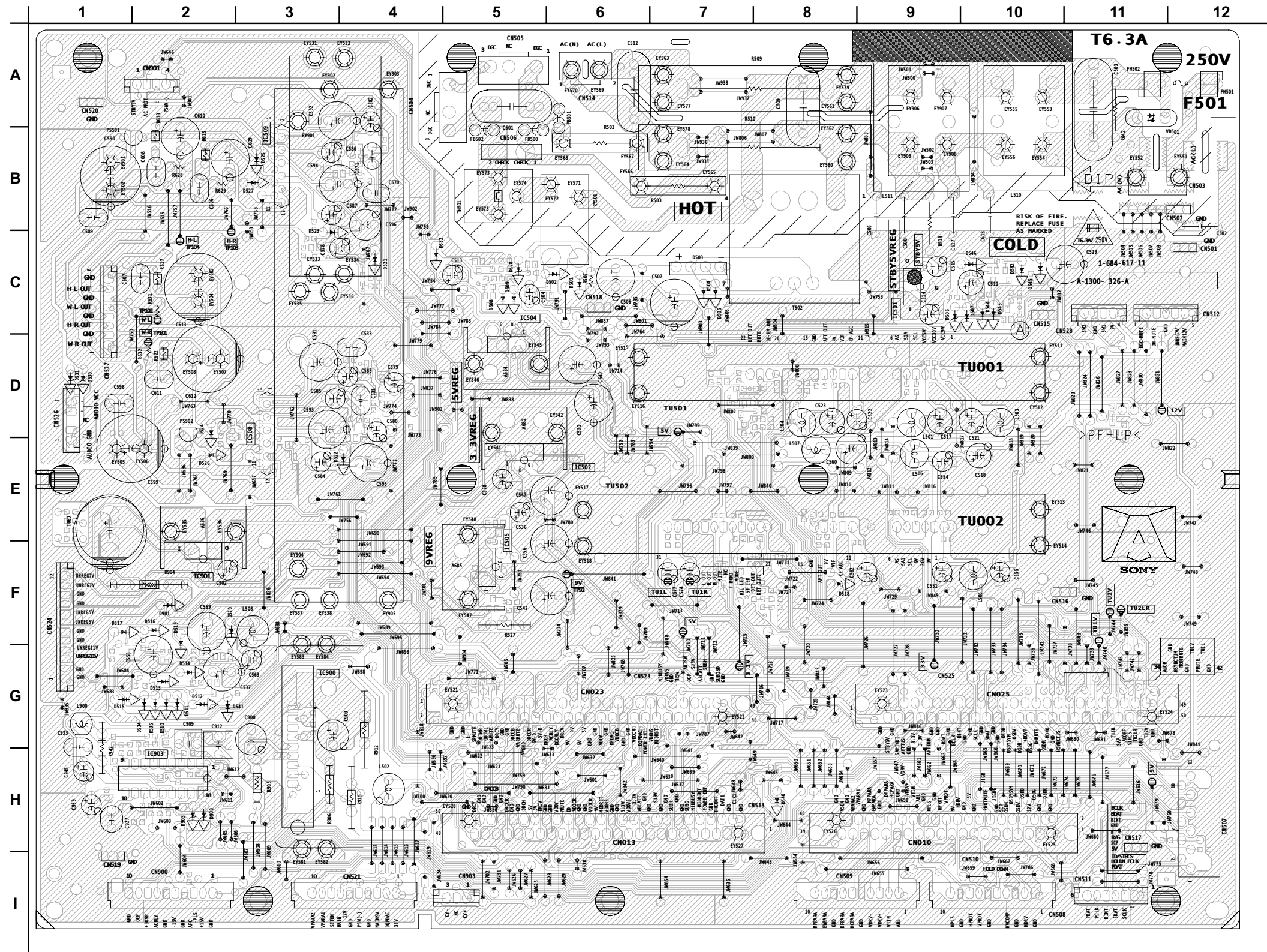
A BOARD TRANSISTOR VOLTAGE LIST

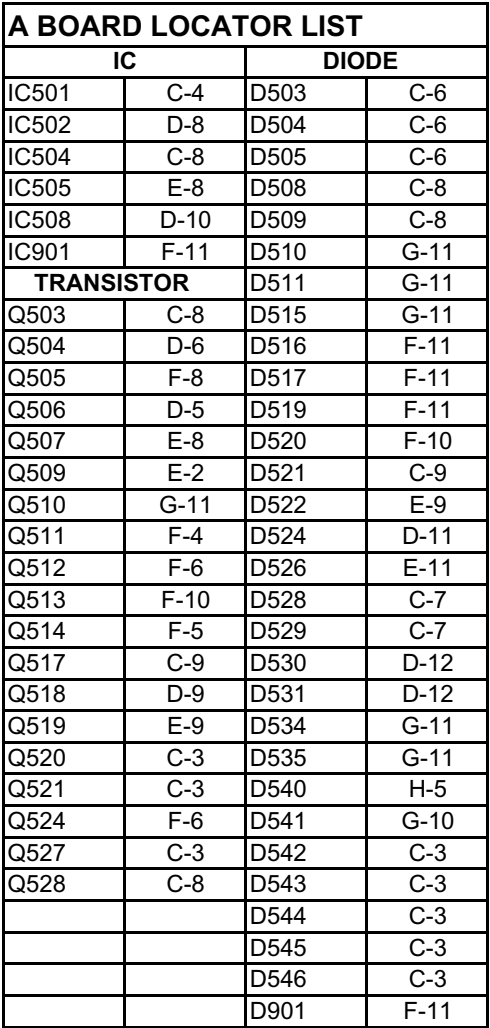
All voltages are in V.

A

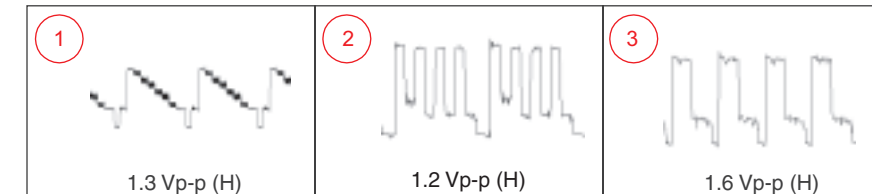
AC/DC POWER
AUDIO POWER
TUNER

A [AC/DC POWER, AUDIO POWER, TUNER] [COMPONENT SIDE]

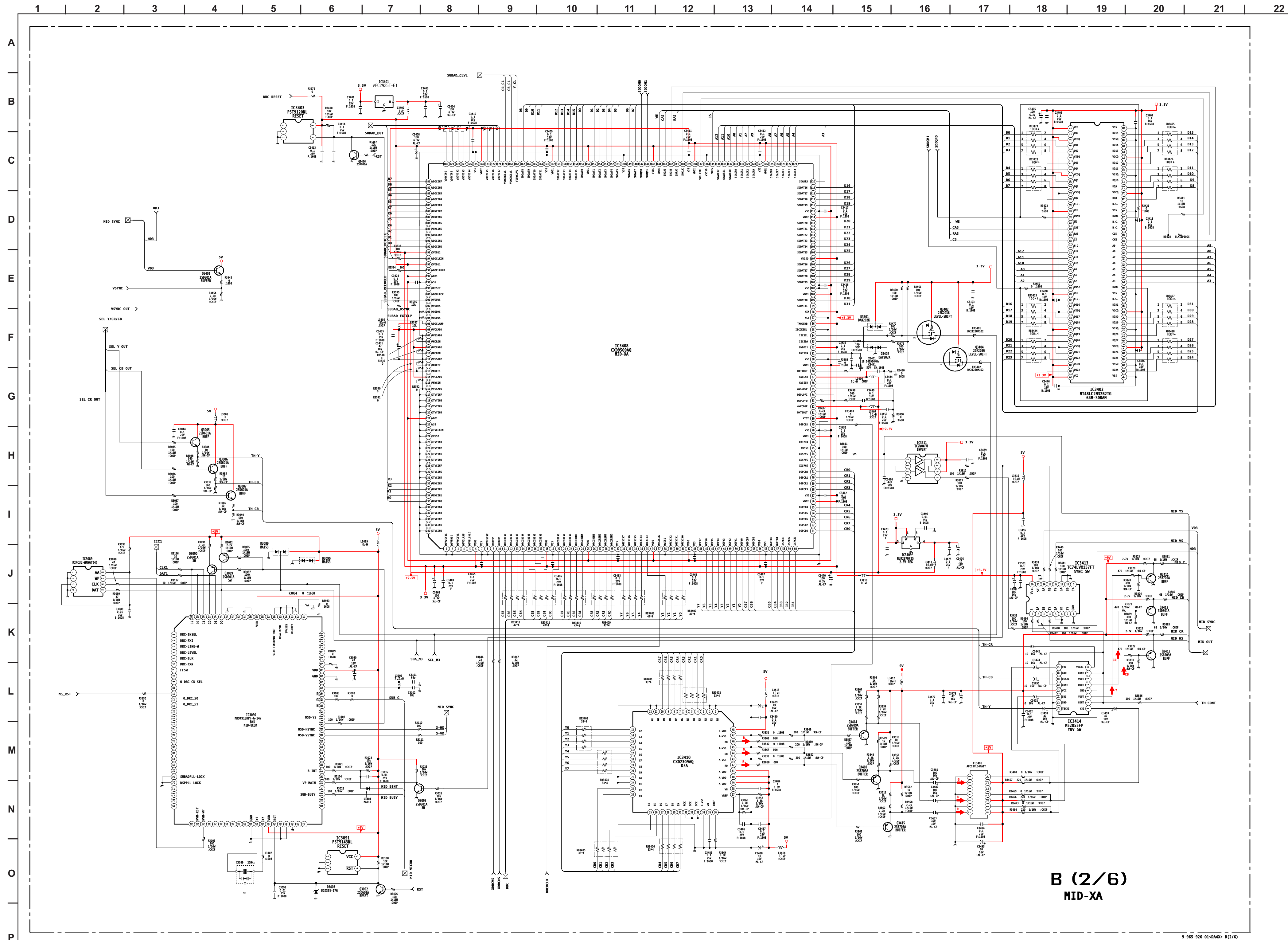




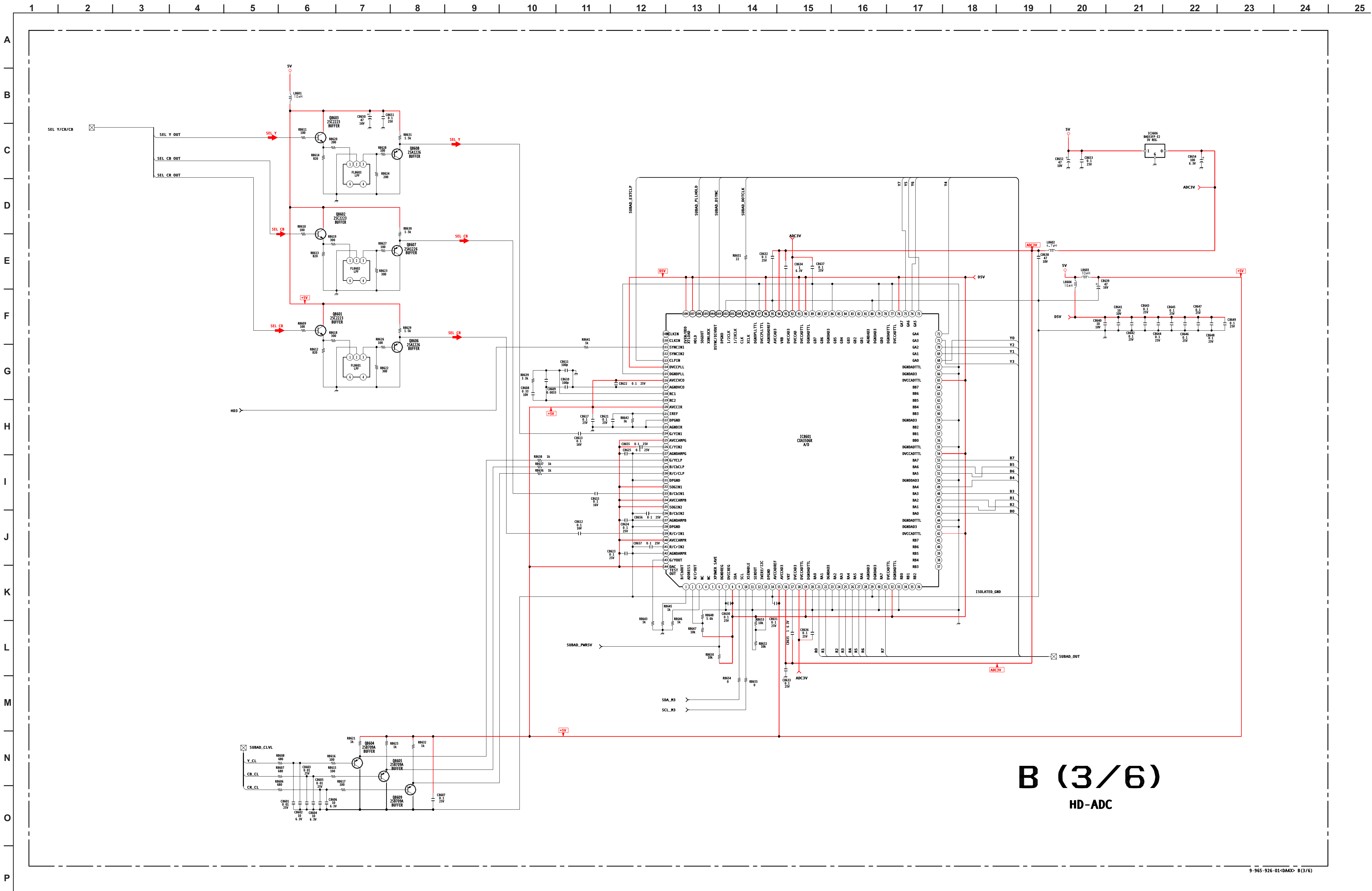
B (1/6)
AD-DRC

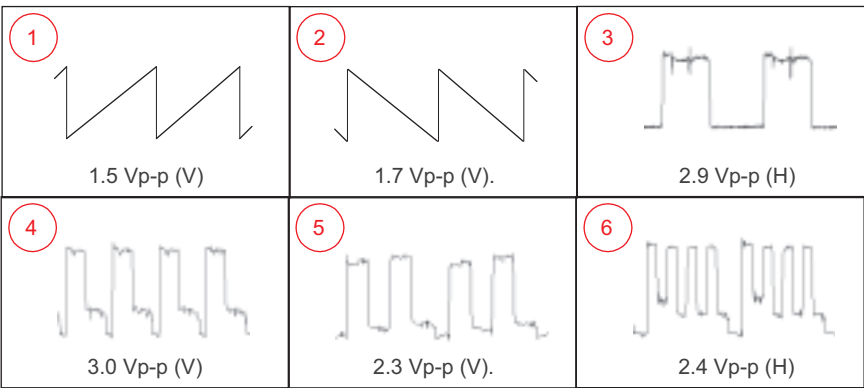


B BOARD SCHEMATIC DIAGRAM (2 OF 6)



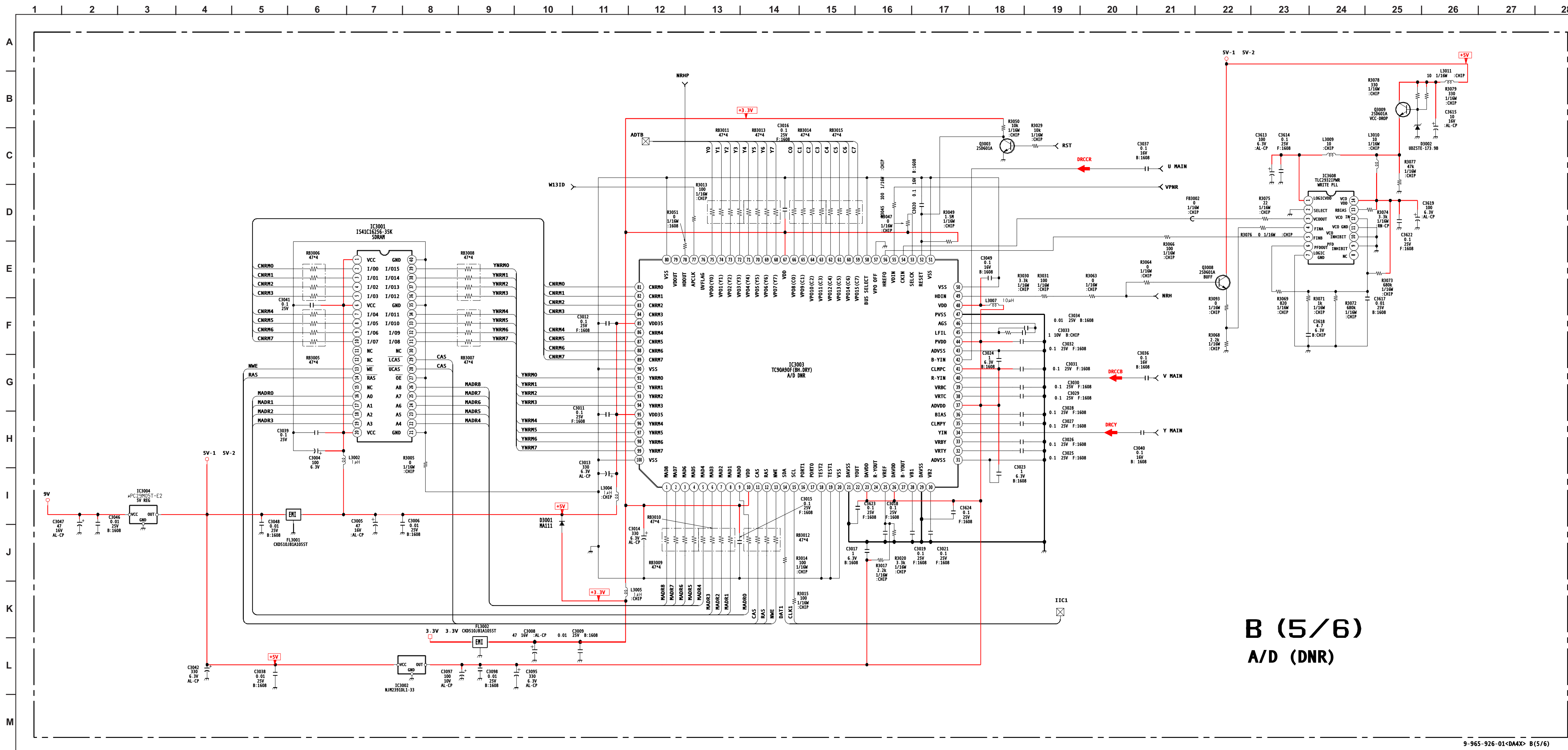
B BOARD SCHEMATIC DIAGRAM (3 OF 6)





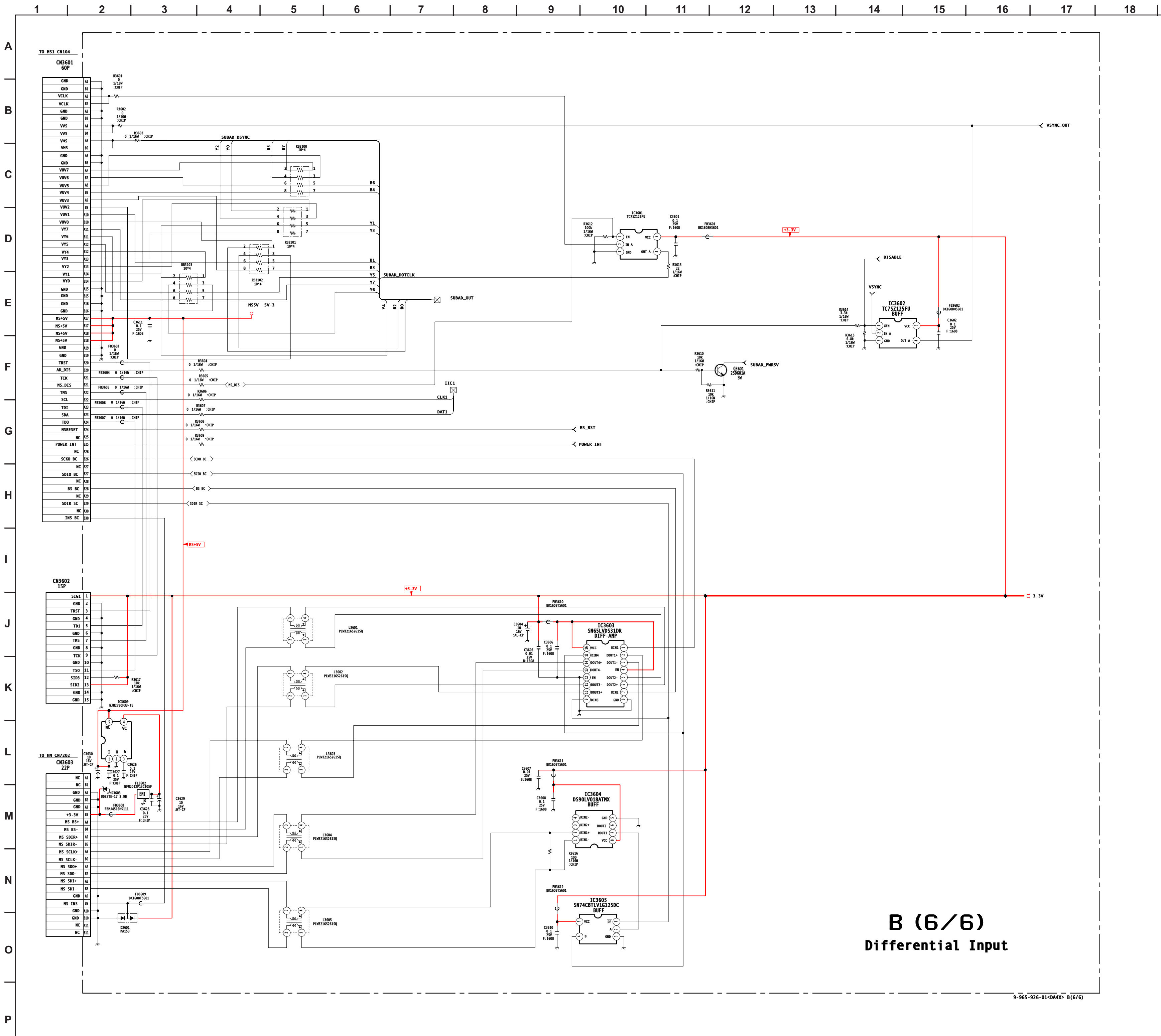
B (4/6)
CRT DRIVE

B BOARD SCHEMATIC DIAGRAM (5 OF 6)



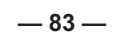
B (5/6)
A/D (DNR)

B BOARD SCHEMATIC DIAGRAM (6 OF 6)

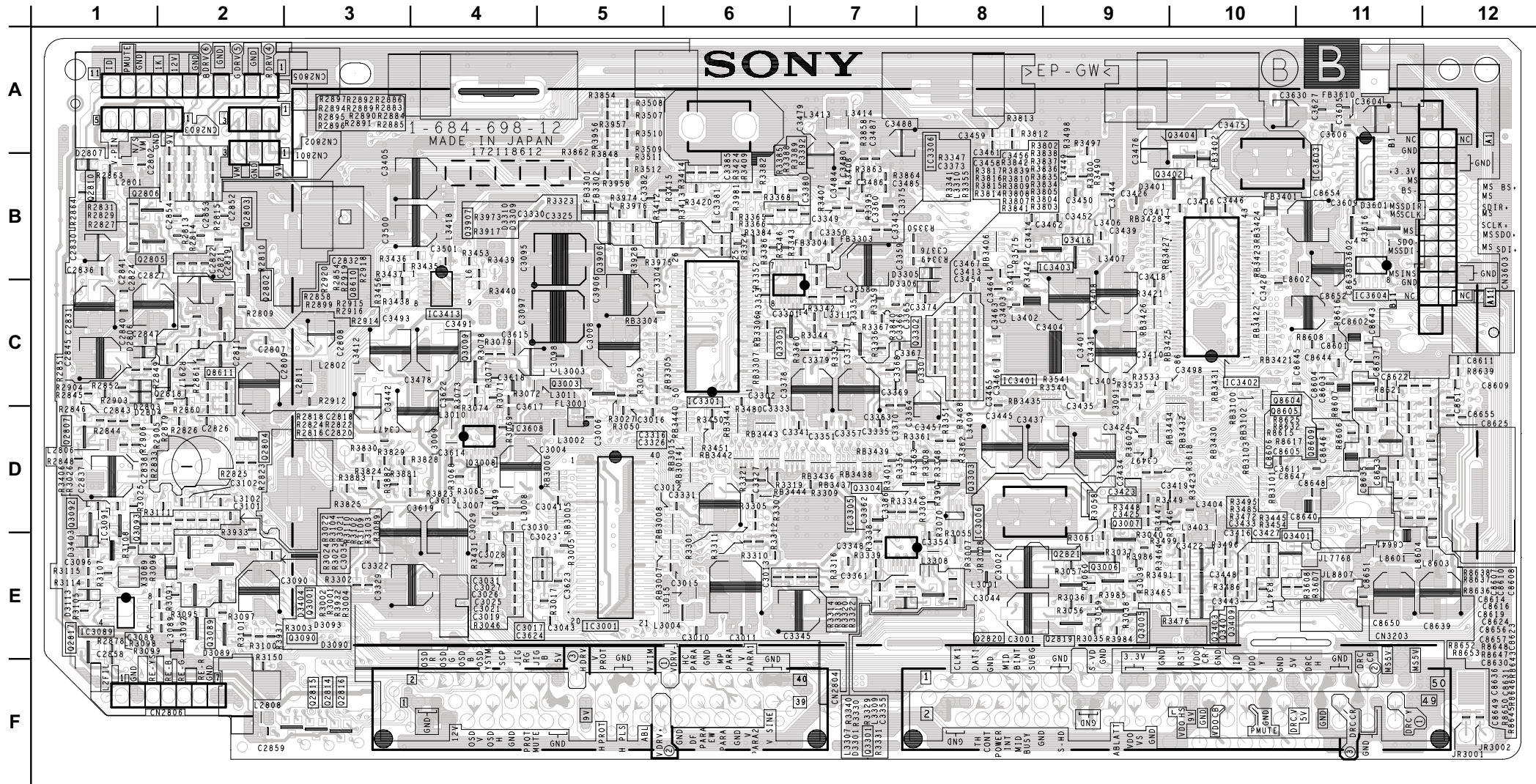


B (6/6)
Differential Input

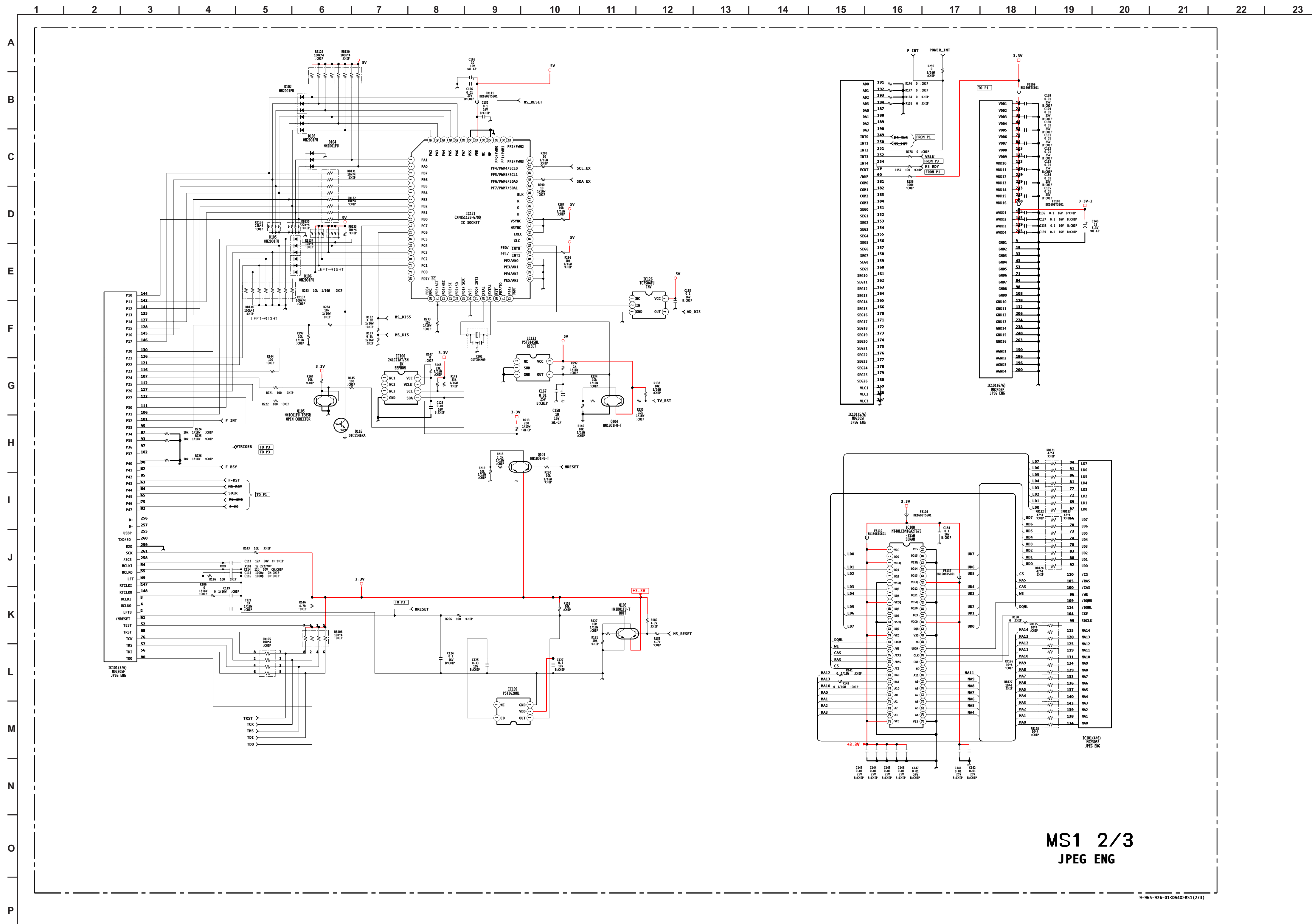
9-965-926-01<DMAX> B(6/6)



B [AD-DRC,MID-XA, HD-ADC, CRT DRIVE, A/D (DNR), DIFFERENTIAL INPUT] [CONDUCTOR SIDE]



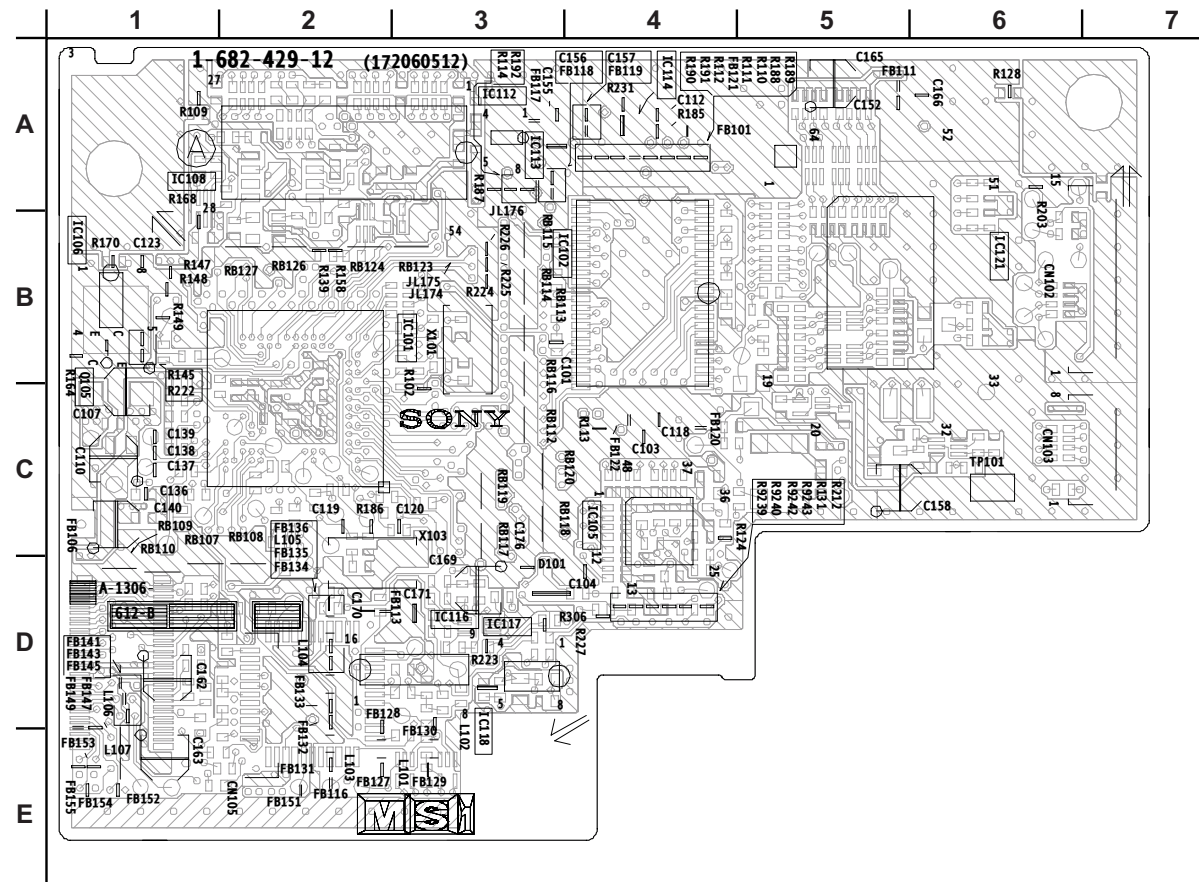
MS1 BOARD SCHEMATIC DIAGRAM (2 OF 3)



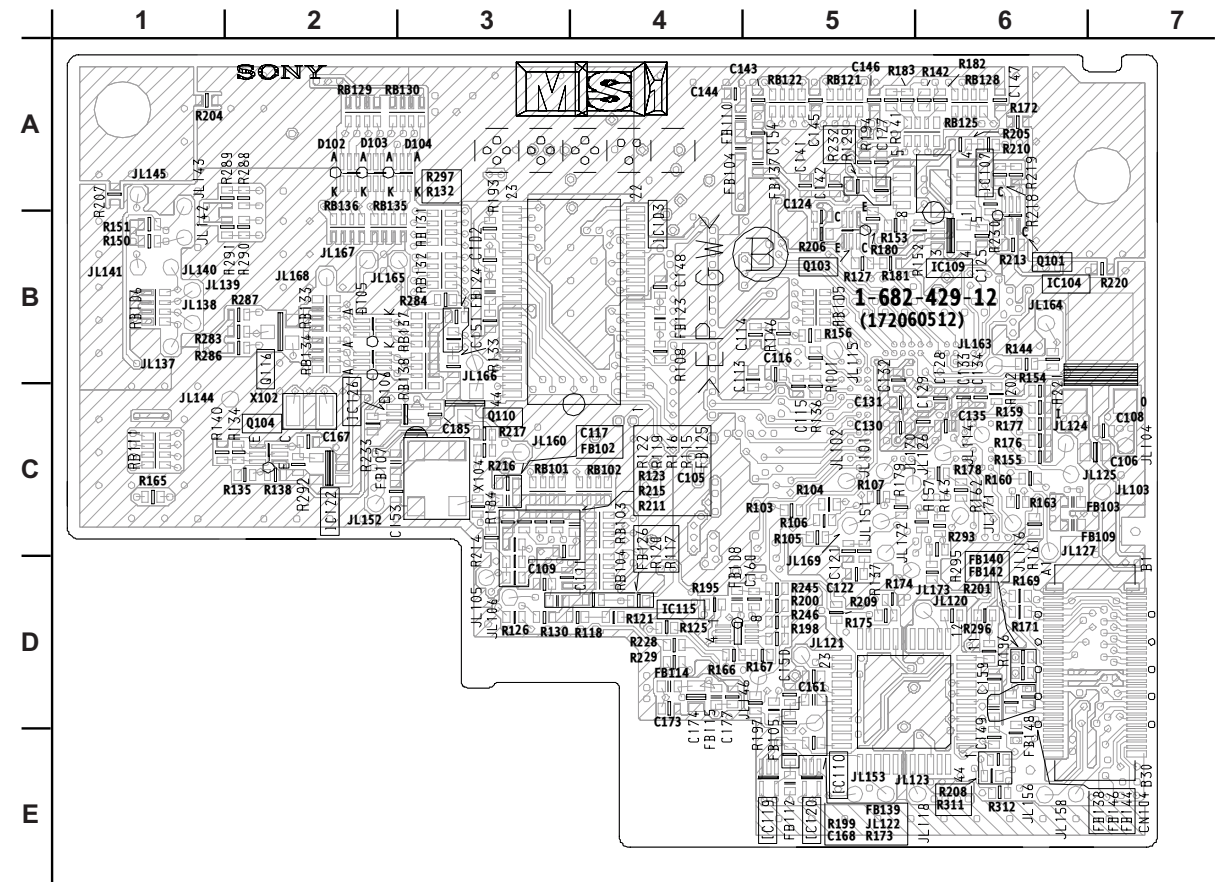
MS1 2/3
JPEG ENG



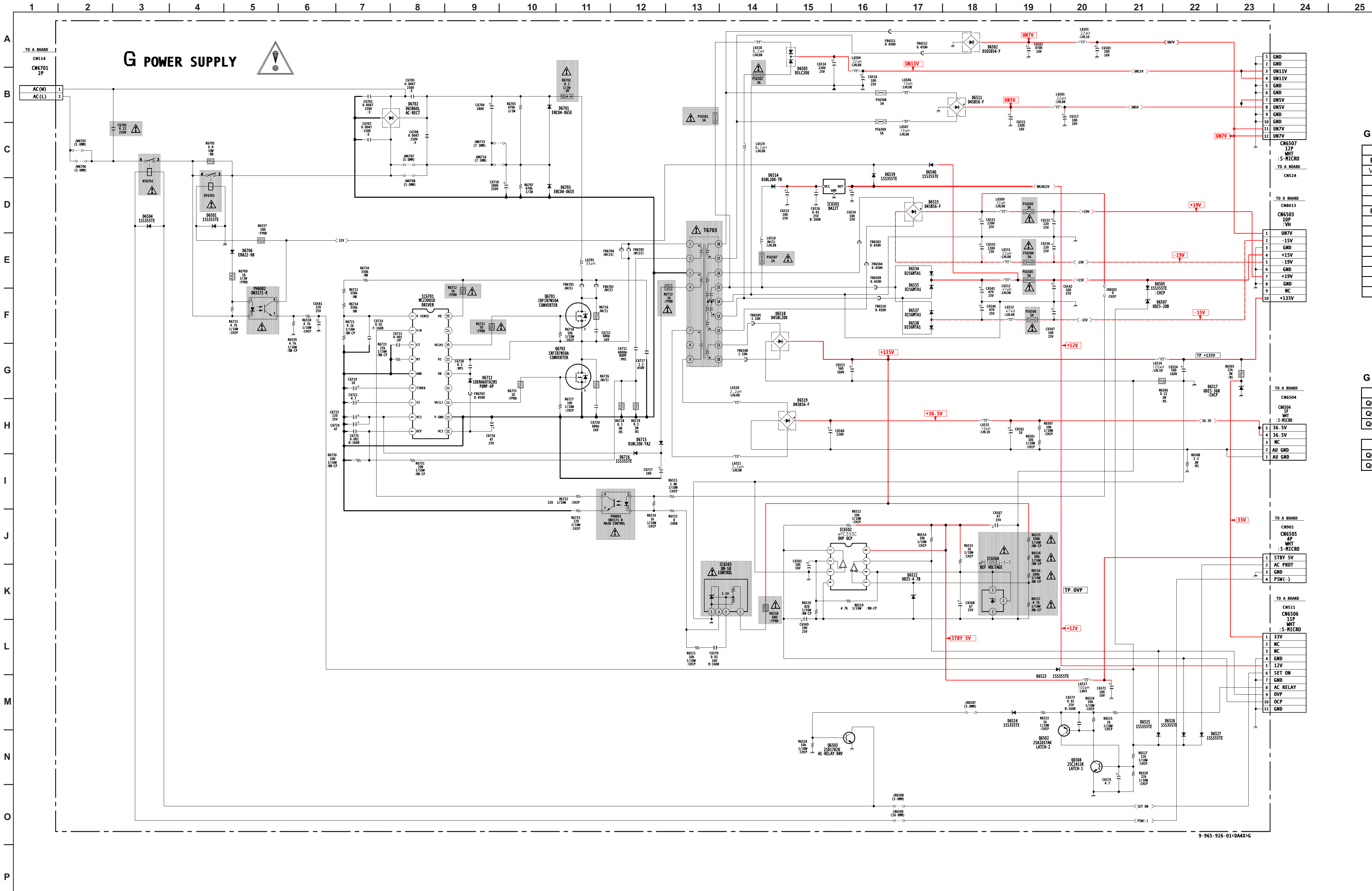
[COMPONENT SIDE]



[CONDUCTOR SIDE]



G BOARD SCHEMATIC DIAGRAM



G BOARD IC VOLTAGE LIST

IC6501	VOLT	IC6503	VOLT	3	2.2
PIN	15.0	PIN	133.7	4	1.5
VCC	15.0	O	12.0	2	N/C
O	12.0	G	GND	3	2.5
G	GND	IC6502	4	15.9	8
IC6502	4	PIN	5	GND	9
PIN	VOLT	IC6504	10	10.5	
1	-0.2	PIN	VOLT	11	GND
2	0.1	2	0.1	12	4.9
3	0.1	3	2.3	13	N/C
4	-0.2	4	0.0	14	155.6
5	2.1	5	2.3	15	145.6
6	2.3	6	15.9	16	150.6
7	-0.2	7	-0.2	17	N/C
8	5.0	8	5.0	18	304.5

All voltages are in V.

G BOARD TRANSISTOR VOLTAGE LIST

Q6502	B	C	E
Q6502	2.2	0	2.2
Q6503	0.7	0.0	GND
Q6504	0.0	2.2	GND

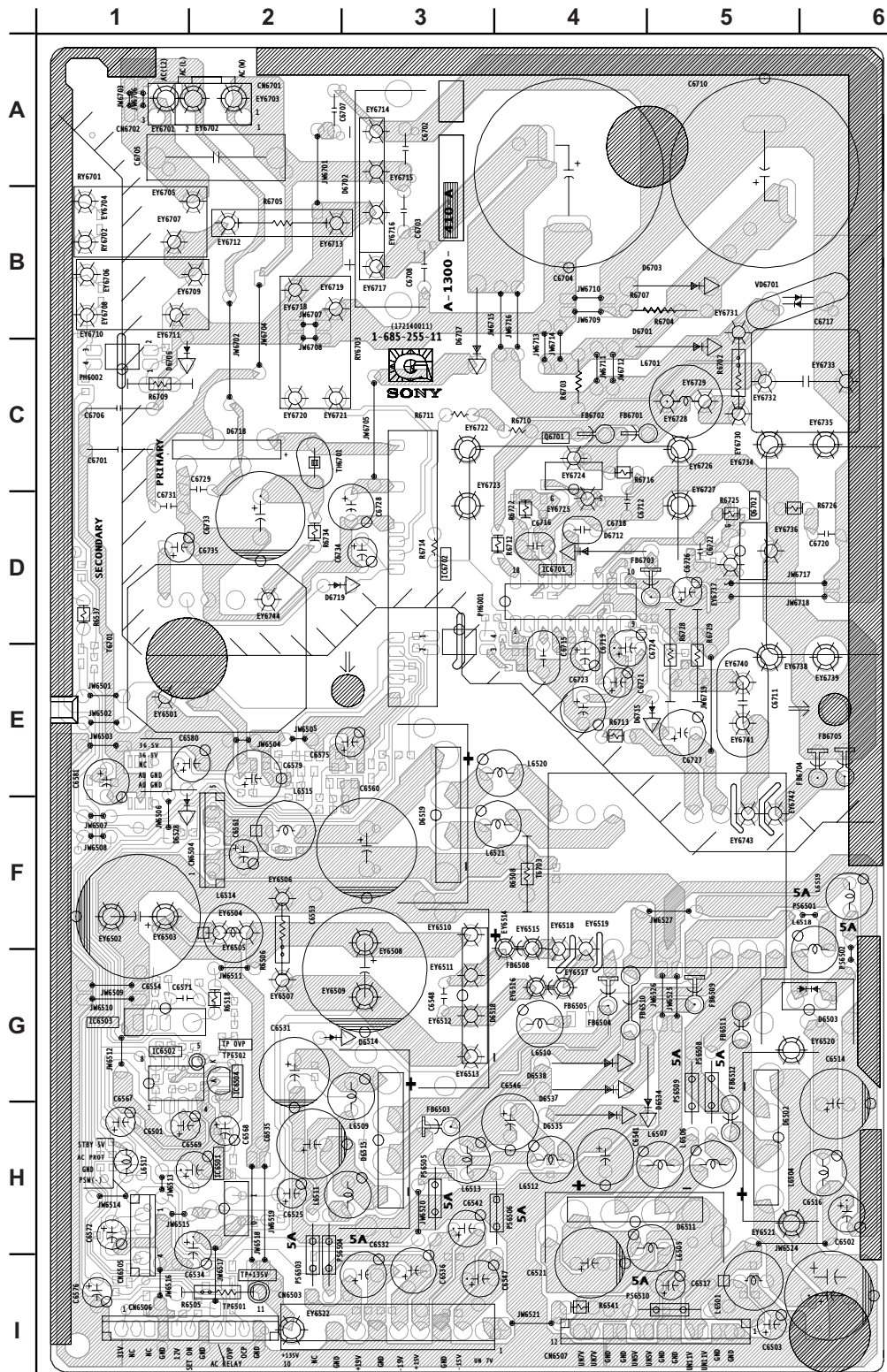
Q6701	D	G	S
Q6701	152.0	3.9	-1.5
Q6702	-1.3	-147.5	-152.2

All voltages are in V.

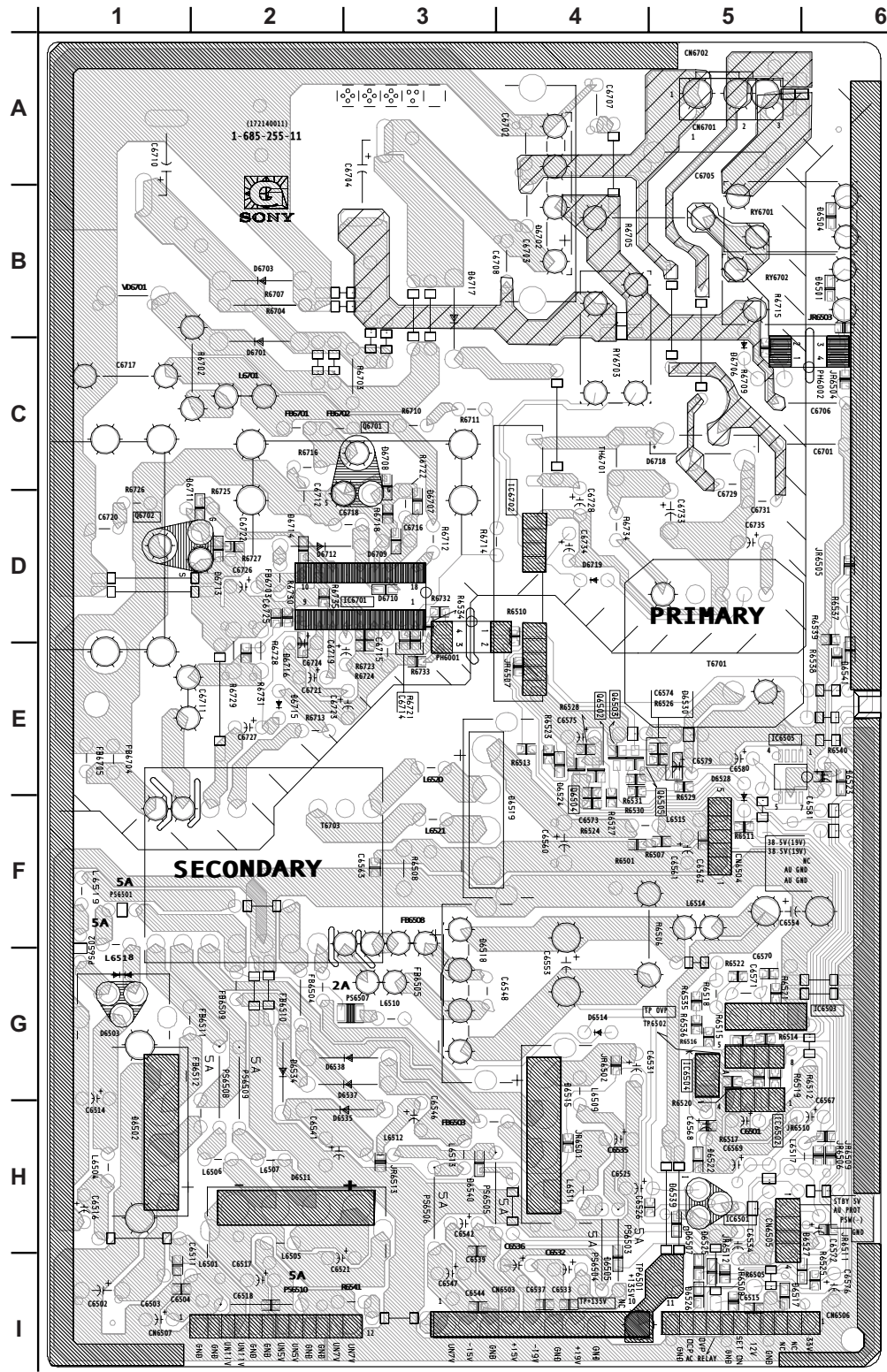


[POWER SUPPLY]

[COMPONENT SIDE]



[CONDUCTOR SIDE]



G BOARD

LOCATOR LIST

IC

IC6501	H-5
IC6502	H-5
IC6503	G-6
IC6504	G-5
IC6701	D-3

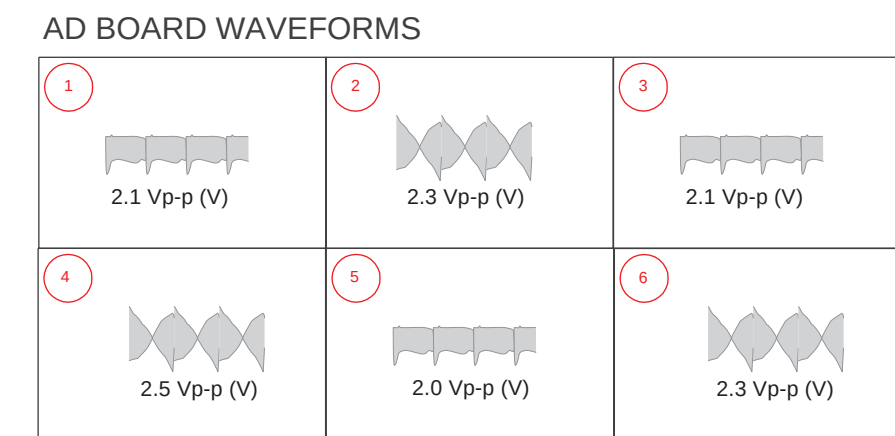
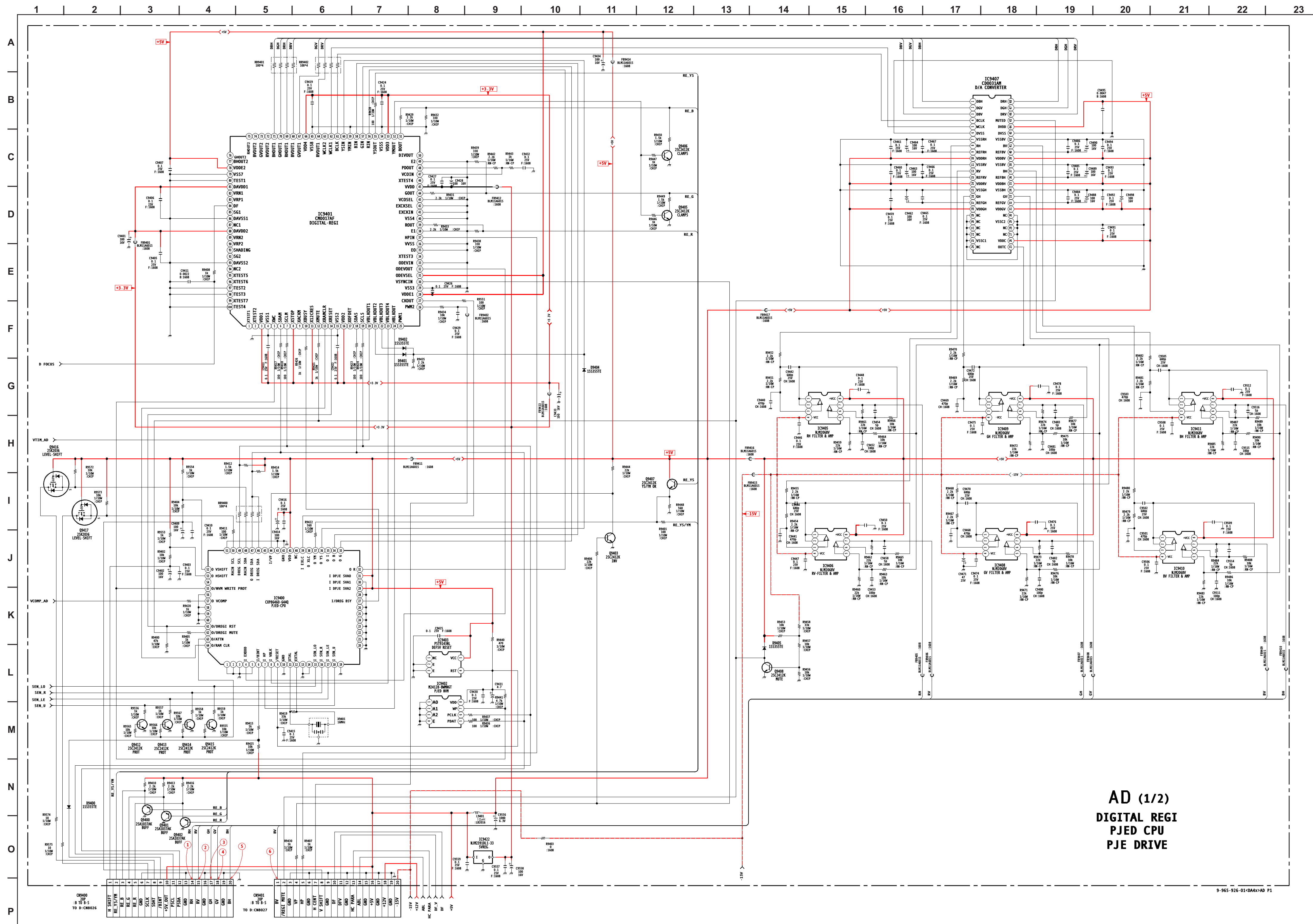
TRANSISTOR

Q6502	E-4
Q6503	E-4
Q6504	E-4
Q6701	C-3
Q6702	D-1

DIODE

D6501	B-6
D6502	H-1
D6503	G-1
D6504	B-6
D6505	I-4
D6507	H-5
D6511	H-2
D6514	G-4
D6515	G-4
D6517	I-5
D6518	F-3
D6519	E-3
D6522	H-5
D6523	F-6
D6524	E-4
D6525	H-5
D6526	I-5
D6527	H-6
D6534	G-2
D6535	G-2
D6537	G-2
D6538	G-2
D6539	H-4
D6540	H-3
D6701	C-2
D6702	B-4
D6703	B-2
D6706	B-5
D6712	D-2
D6715	E-2
D6716	E-2

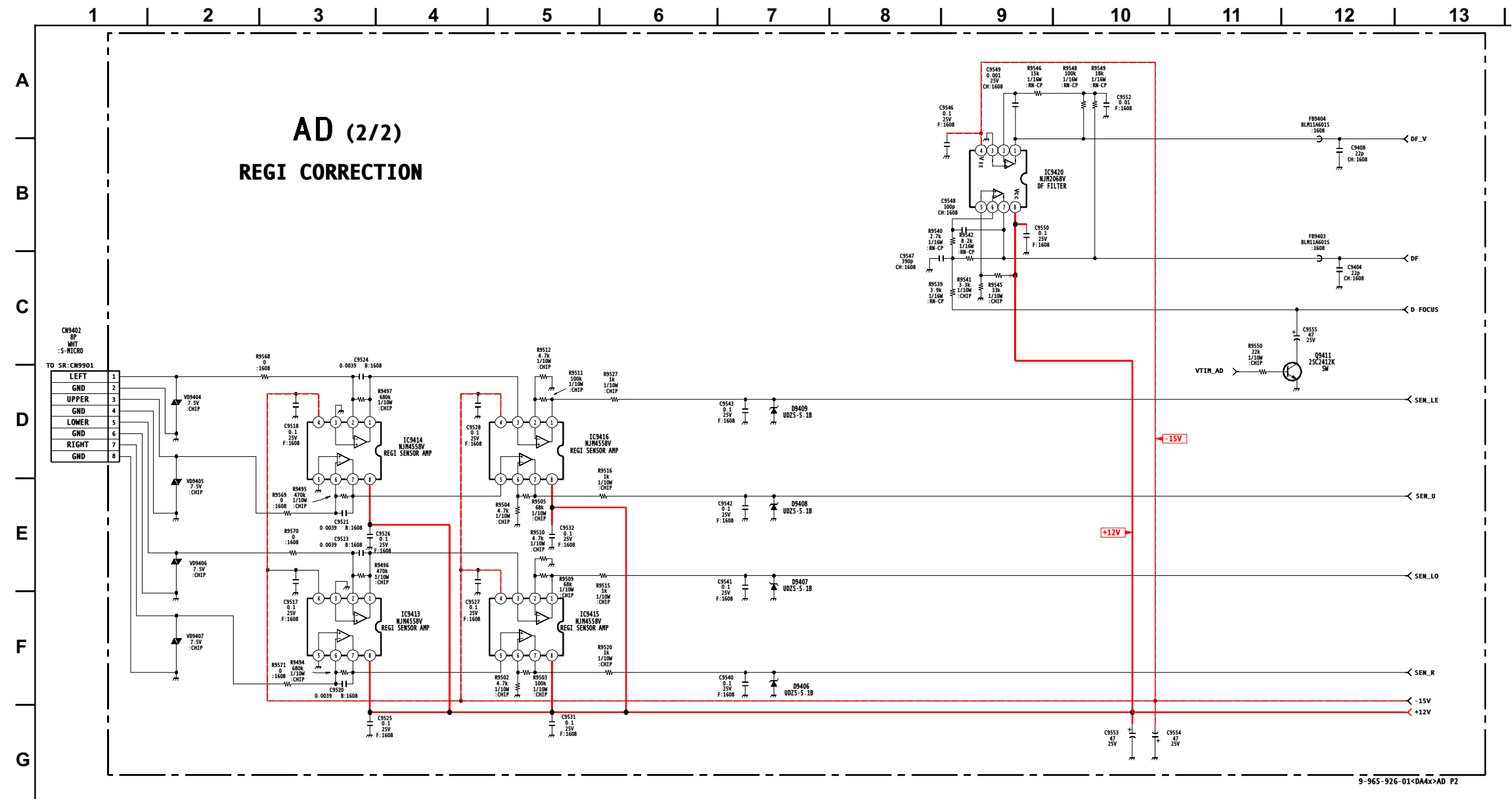
AD BOARD SCHEMATIC DIAGRAM (1 OF 2) The AD board is not field repairable. If service is required, use the following part number to order a complete replacement board.
A-1300-411-A AD Board, Complete



AD (1/2)
DIGITAL REGI
PJE CPU
PJE DRIVE

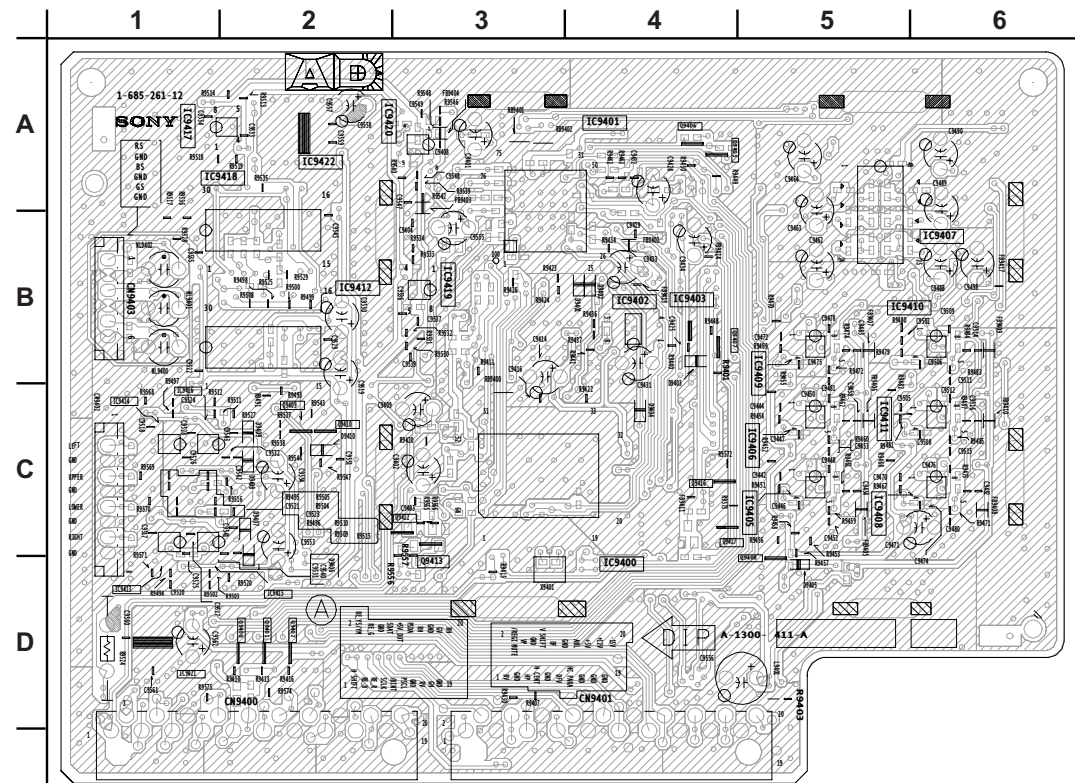
9-965-926-01<0A4>AD P1

AD BOARD SCHEMATIC DIAGRAM (2 OF 2)

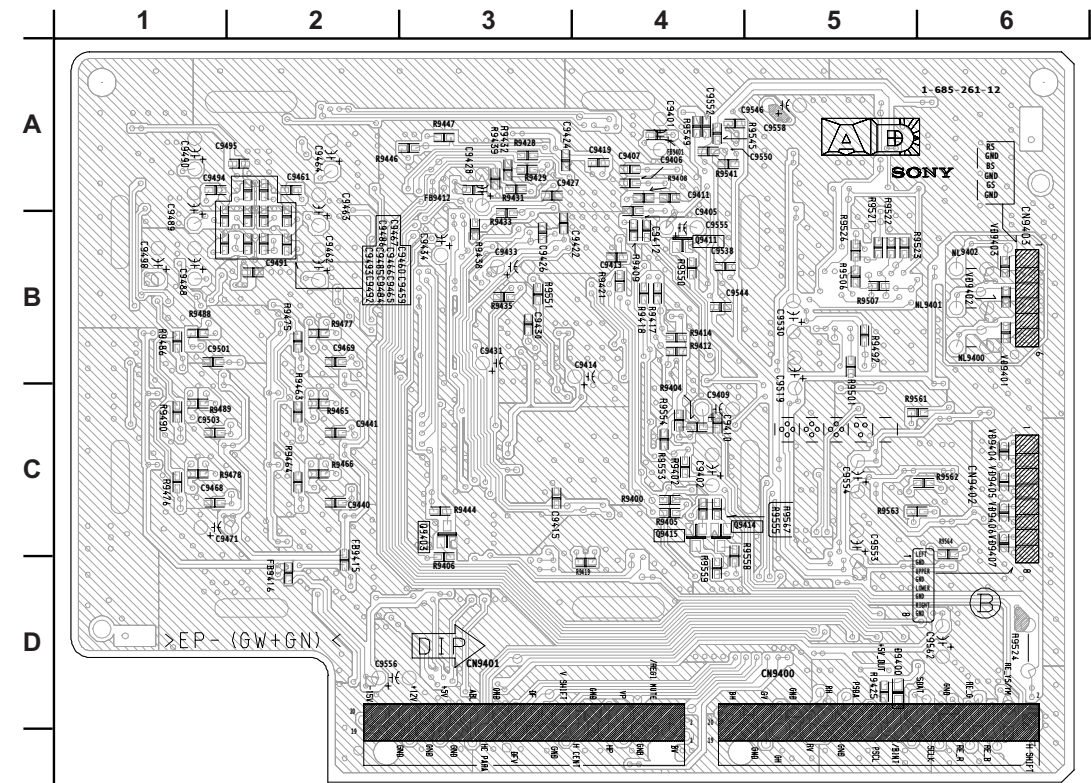


[DIGITAL REGI, PJED CPU, PJE DRIVE, REGI CORRECTION]

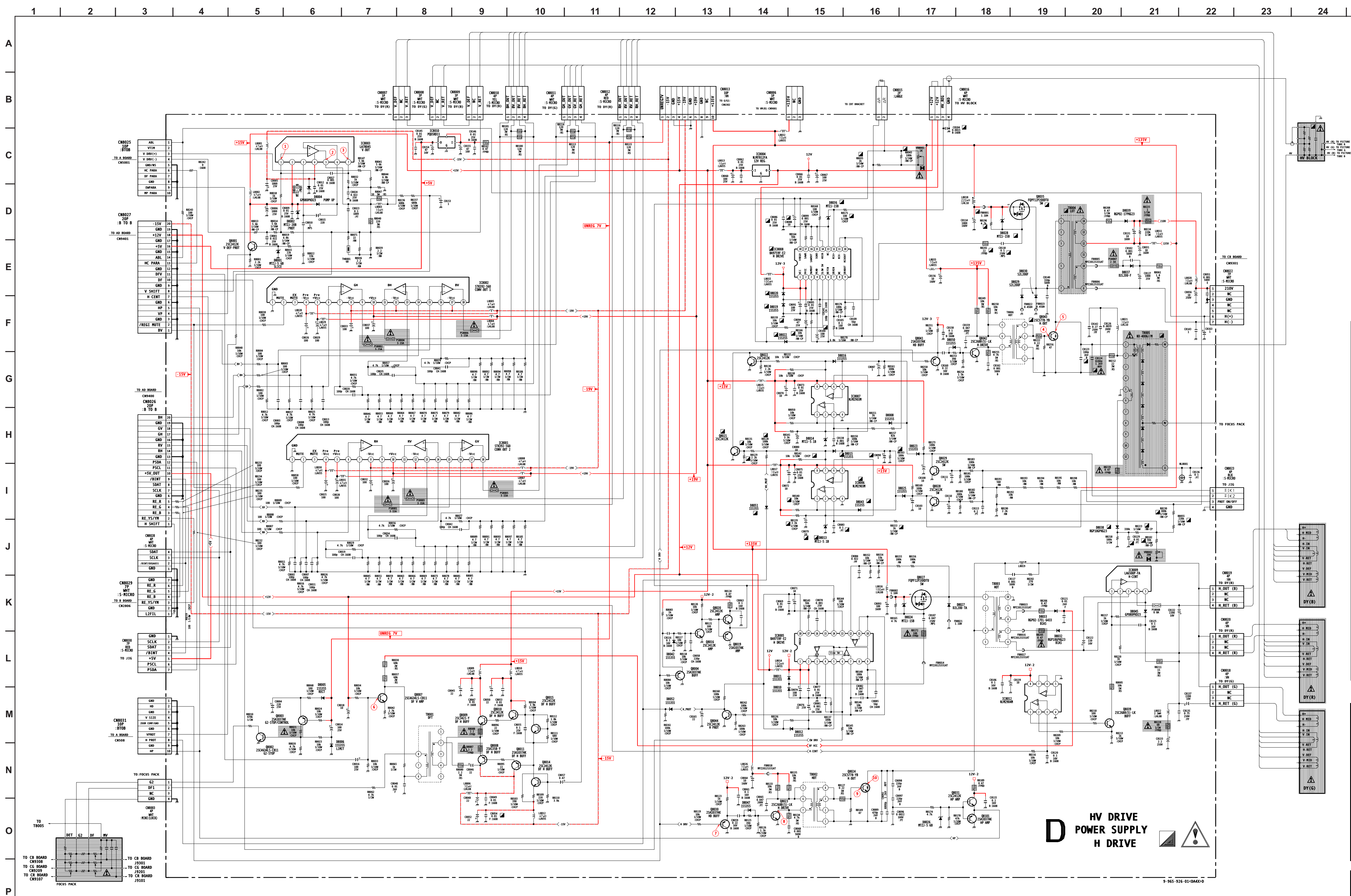
[COMPONENT SIDE]



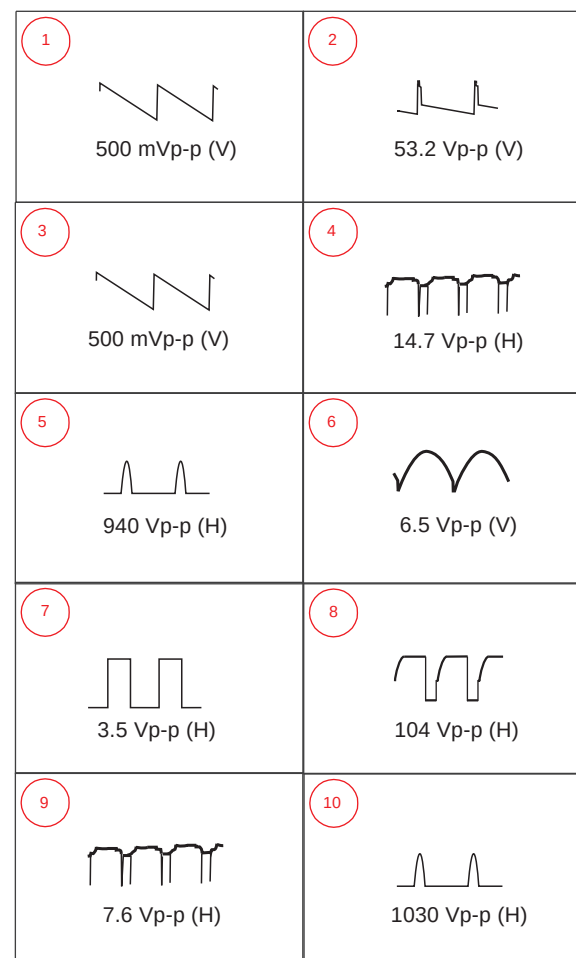
[CONDUCTOR SIDE]



D BOARD SCHEMATIC DIAGRAM



D BOARD WAVEFORMS



D BOARD IC VOLTAGE LIST

IC8001			14	0.3	15	GND	10	7.4
PIN	VOLT		15	0	16	3.2	11	7.4
1	GND		16	0	17	2.6	12	7.4
2	4.3	17	-22	18	9.1	13	GND	
3	N/C	18	0.1	IC8006		14	7.1	
4	-22.0	IC8003		PIN	VOLT	15	GND	
5	22.0	PIN	VOLT	1	0.1	16	3.2	
6	-0.3	1	1.3	2	5.0	17	2.6	
7	-0.3	2	15.0	3	4.5	18	9.1	
8	-22.0	3	-13.1	4	GND	IC8009		
9	-0.5	4	-15.0	5	0.0	PIN	VOLT	
10	22.0	5	0.4	6	5.0	1	98.2	
11	0.1	6	15.0	7	0.1	2	98.2	
12	-22.0	7	1.3	8	15.0	3	94.0	
13	0.0	IC8004		PIN	VOLT	4	97.8	
14	0.0	PIN	VOLT	1	0.1	IC8010		
15	0.0	I	15.0	1	0.1	PIN	VOLT	
16	0.0	O	12.0	2	5.0	1	7.0	
17	-22.0	G	GND	3	4.0	I	7.0	
18	0.1	IC8005		4	GND	O	5.0	
IC8002			PIN	VOLT	5	0.0	G	GND
1	GND	1	12.0	6	5.0	IC8012		
2	4.3	3	5.8	8	15.0	1	2.7	
3	N/C	4	GND	IC8008		2	2.1	
4	-22.0	5	7.9	PIN	VOLT	3	2.1	
5	22.0	6	3.8	1	12.0	4	GND	
6	-0.1	7	3.8	2	12.0	5	GND	
7	-0.1	8	N/C	3	6.0	6	0.0	
8	-22.0	9	3.8	4	GND	7	0.0	
9	0.0	10	3.6	5	8.0	8	12.0	
10	22.0	11	3.6	6	7.4	All voltages are in V.		
11	0.5	12	3.6	7	7.4			
12	-22.0	13	GND	8	N/C			
13	0.3	14	7.1	9	3.3			

D BOARD TRANSISTOR VOLTAGE LIST

Q8001			B	C	E	Q8021			B	C	E
Q8001	-0.4	15.0	0.1	Q8021	0.0	8.9	GND				
Q8002	0	13.0	GND	Q8022	0.0	8.9	GND				
Q8003	14.6	0.0	14.6	Q8023	-0.5	68.0	GND				
Q8004	3.4	GND	4.0	Q8024	0.1	242.0	GND				
Q8007	5.8	204.0	5.2	Q8028	0.5	0.0	GND				
Q8008	2.8	-22.0	3.3	Q8029	0.5	0.0	GND				
Q8009	4.0	22.0	3.4	Q8030	3.4	GND	4.0				
Q8010	4.5	22.0	4.0	Q8031	0.2	12.0	0.6				
Q8011	2.3	-22.0	2.7	Q8039	2.7	76.7	2.1				
Q8014	-20.0	2.3	-20.6	Q8041	3.4	GND	8.9				
Q8015	2.9	4.5	2.3	Q8042	9.6	29.8	GND				
Q8016	-0.3	7.4	GND	Q8043	8.9	192.0	0.1				
Q8019	7.4	GND	7.2	Q8044	0.6	0.0	GND				
Q8020	7.4	12.0	7.2	Q8101	0.2	GND	0.6				

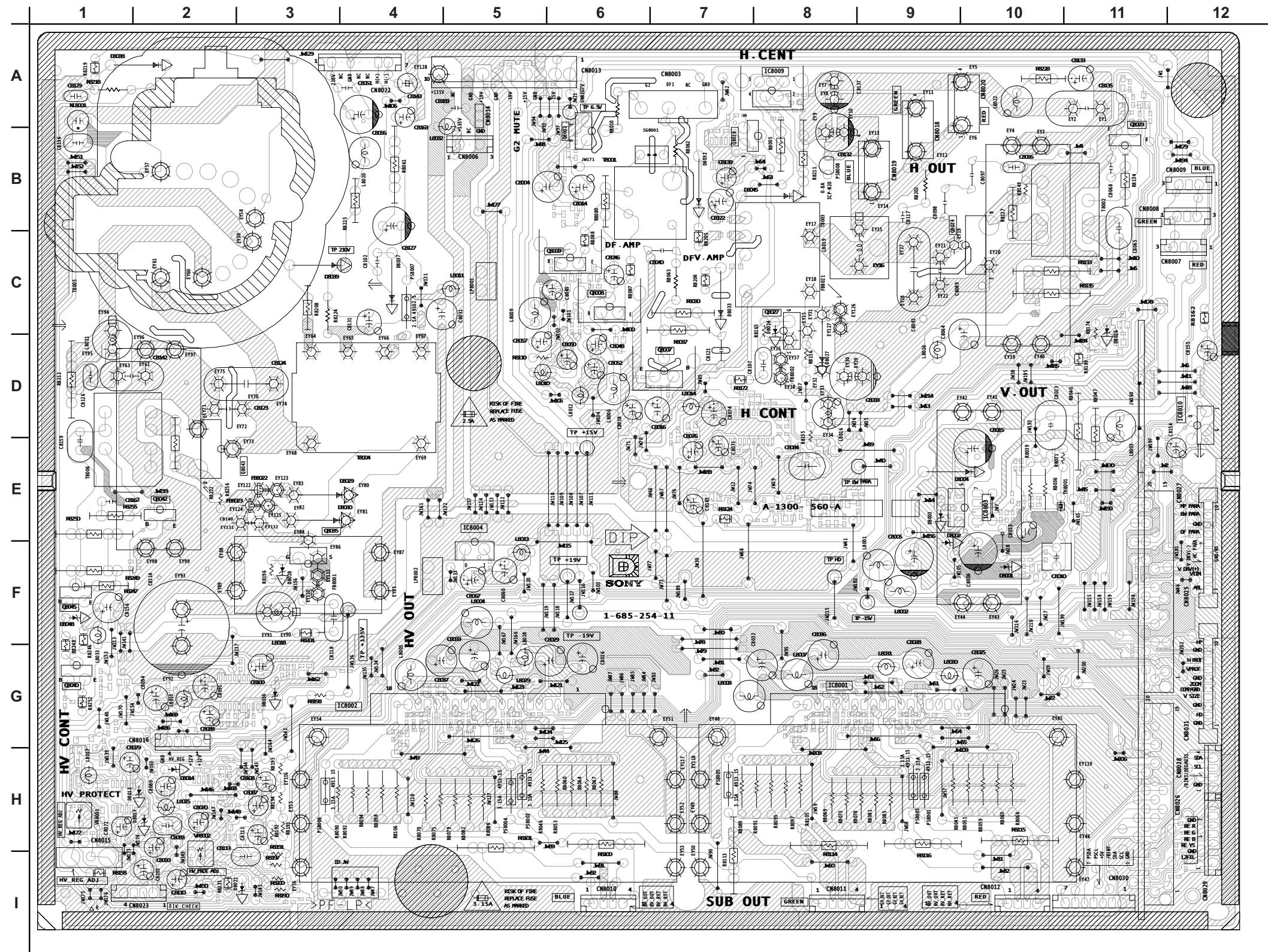
Q8027			D	G	S
Q8027	112.3	131.1	135.0		
Q8035	115.6	130.9	135.9		

All voltages are in V.

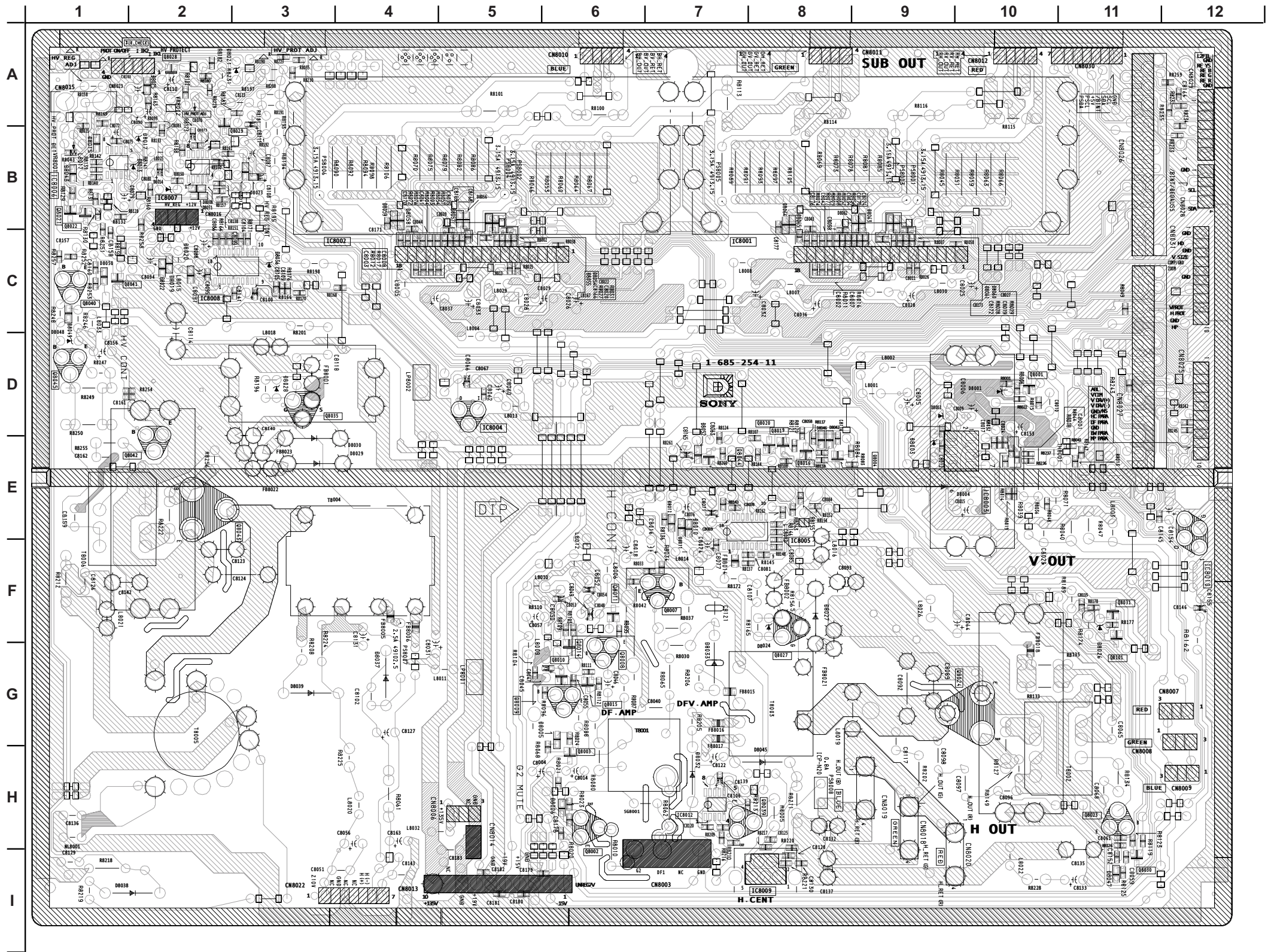
D HV DRIVE
POWER SUPPLY
H DRIVE



D [HV DRIVE, POWER SUPPLY, H DRIVE] [COMPONENT SIDE]

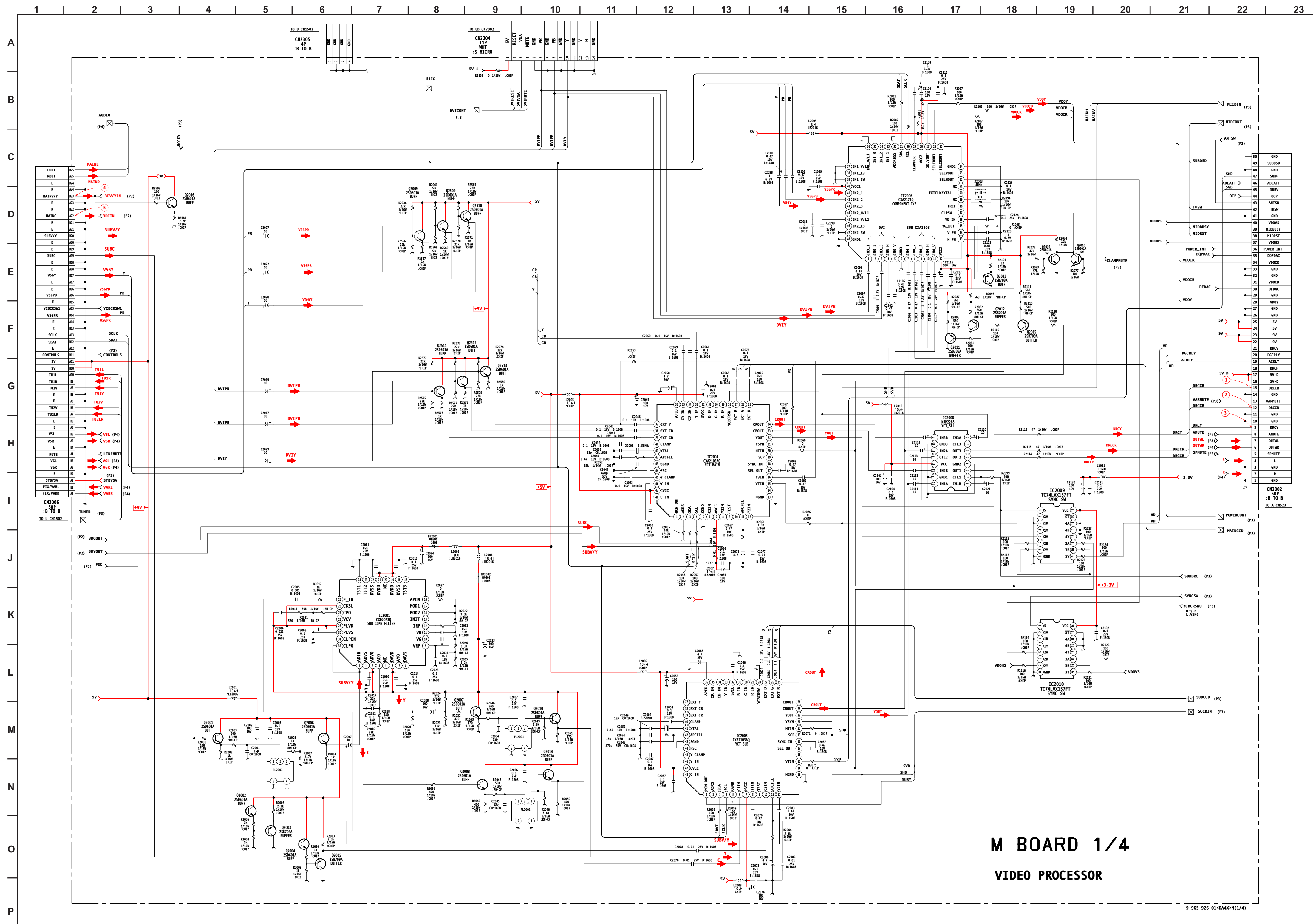


D [HV DRIVE, POWER SUPPLY, H DRIVE] [CONDUCTOR SIDE]

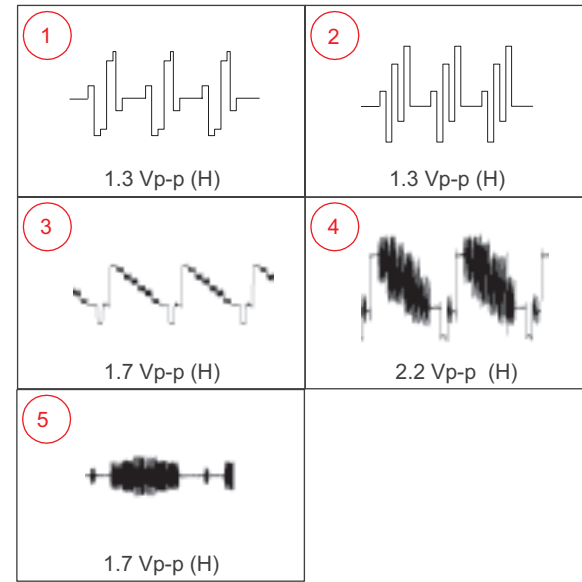


D BOARD LOCATOR LIST			
IC		DIODE	
IC8001	C-7	D8001	D-10
IC8002	C-3	D8002	D-9
IC8003	E-10	D8003	D-9
IC8004	D-5	D8004	E-9
IC8005	F-8	D8005	H-5
IC8006	B-1	D8006	H-6
IC8007	B-2	D8008	B-2
IC8008	C-2	D8010	E-7
IC8009	I-8	D8011	E-7
IC8010	F-12	D8012	E-7
IC8012	H-7	D8013	B-2
TRANSISTOR			
Q8001	D-10	D8014	B-2
Q8002	H-6	D8016	B-3
Q8003	G-6	D8019	C-2
Q8004	E-9	D8020	C-2
Q8007	F-7	D8022	C-2
Q8008	G-6	D8023	B-3
Q8009	G-5	D8024	G-7
Q8010	G-6	D8025	A-2
Q8011	F-6	D8026	G-11
Q8014	G-6	D8027	F-8
Q8015	G-6	D8028	D-3
Q8016	E-8	D8029	E-3
Q8019	D-8	D8030	E-3
Q8020	D-8	D8032	H-7
Q8021	B-1	D8033	G-7
Q8022	B-1	D8036	C-3
Q8023	H-11	D8037	G-4
Q8024	G-10	D8038	I-2
Q8027	F-8	D8039	G-3
Q8028	A-2	D8042	D-8
Q8029	B-3	D8043	B-1
Q8030	I-11	D8045	H-8
Q8031	F-11	D8047	I-11
Q8035	D-3	D8050	C-1
Q8039	H-8	D8051	B-2
Q8041	C-2	D8052	D-7
Q8042	E-2		
Q8043	E-3		
Q8044	E-8		
Q8101	G-11		

M BOARD SCHEMATIC DIAGRAM (1 OF 4) The M board is not field repairable. If service is required, use the following part number to order a complete replacement board.
A-1300-646-A M Board, Complete

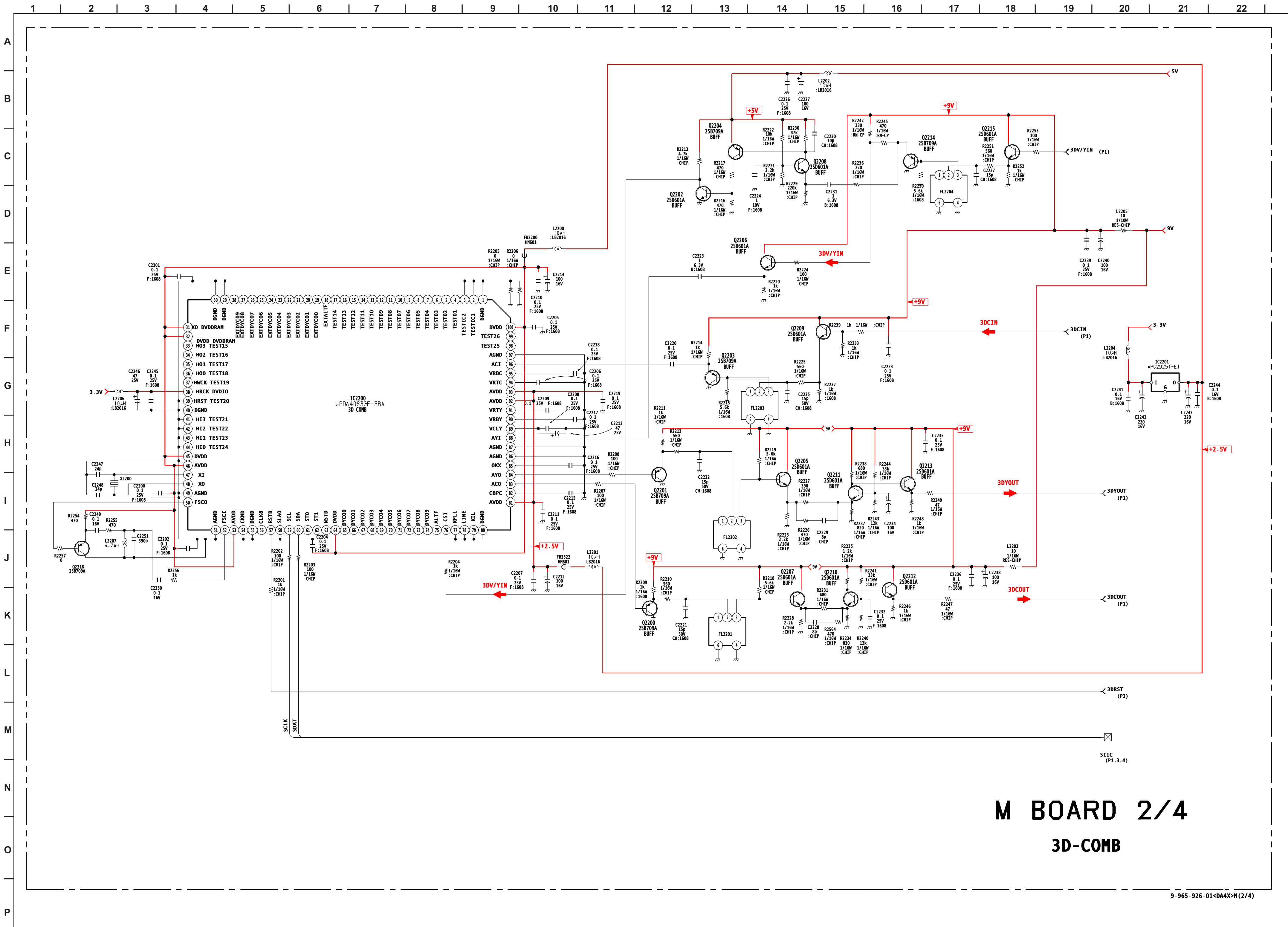


M BOARD WAVEFORMS



M BOARD 1/4
VIDEO PROCESSOR

M BOARD SCHEMATIC DIAGRAM (2 OF 4)



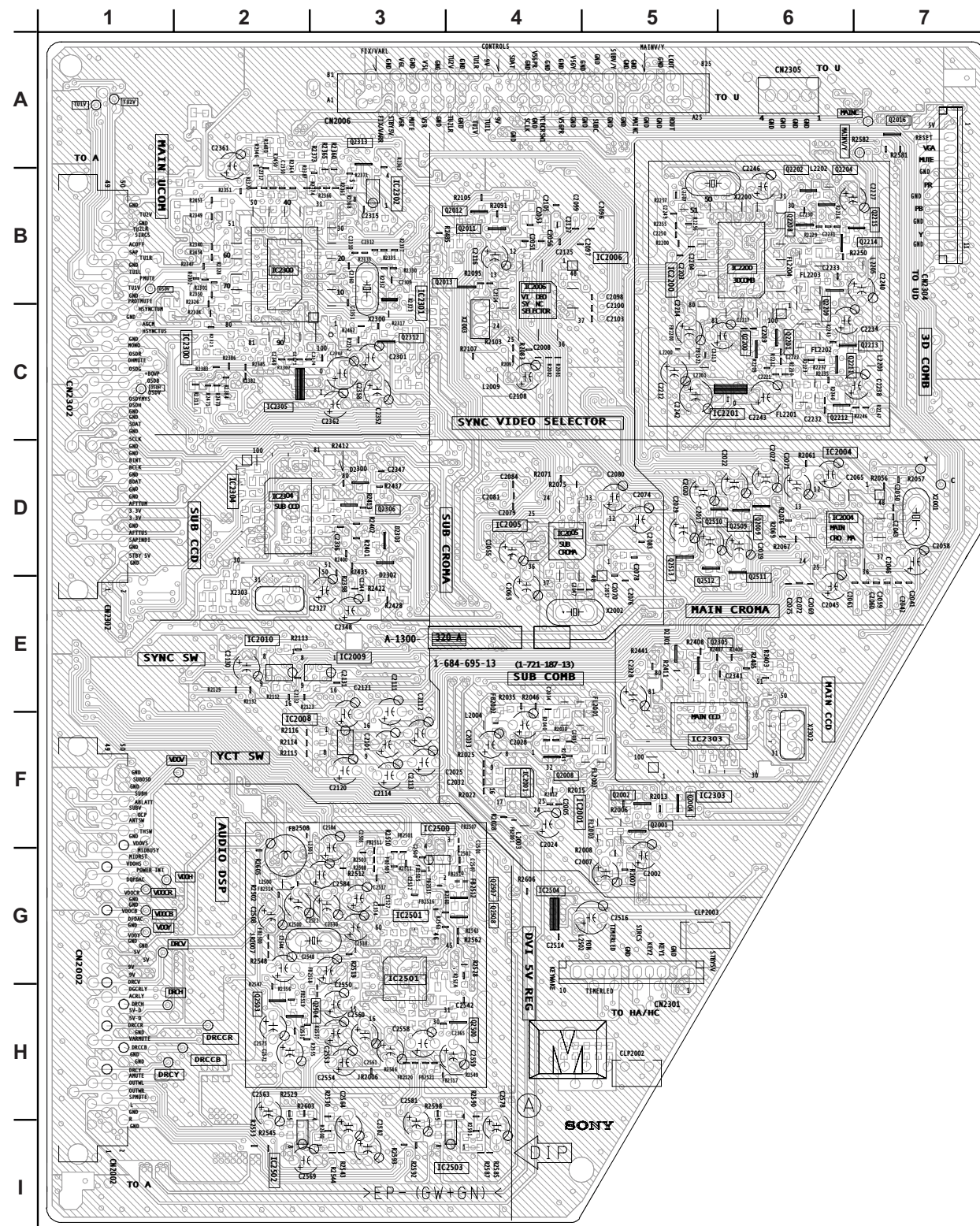




M

[VIDEO PROCESSOR, 3-D COMB, MICRO (MAIN, CCD), AUDIO PROCESSOR]

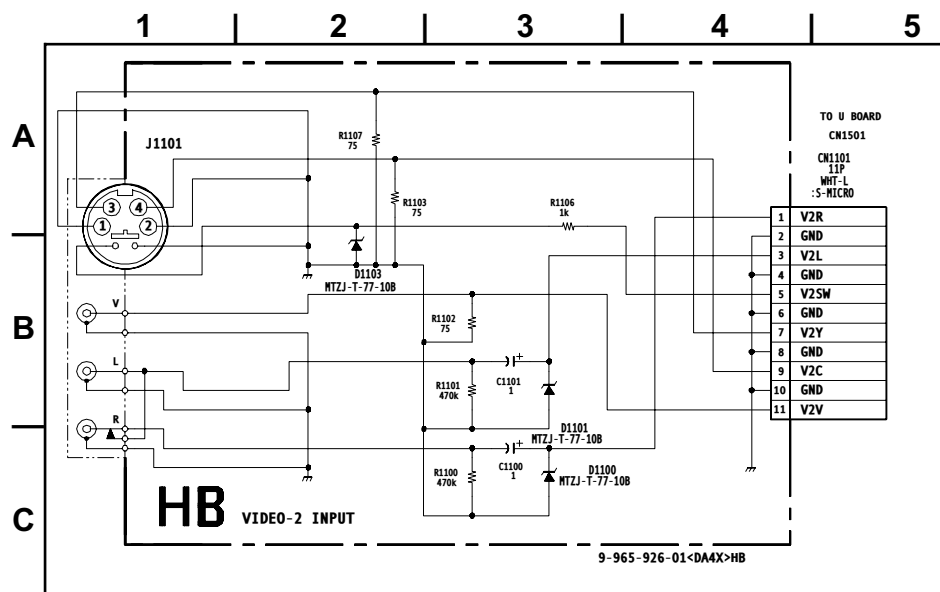
[COMPONENT SIDE]



[CONDUCTOR SIDE]

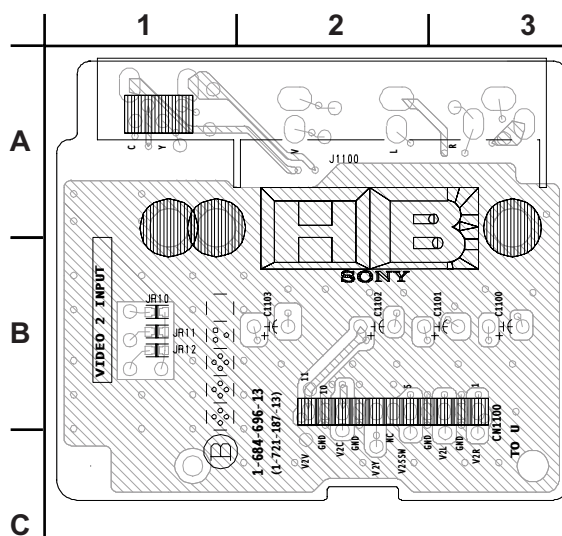
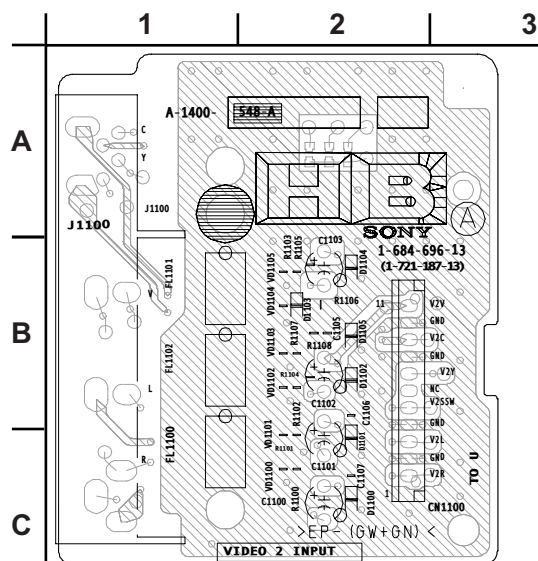


HB BOARD SCHEMATIC DIAGRAM



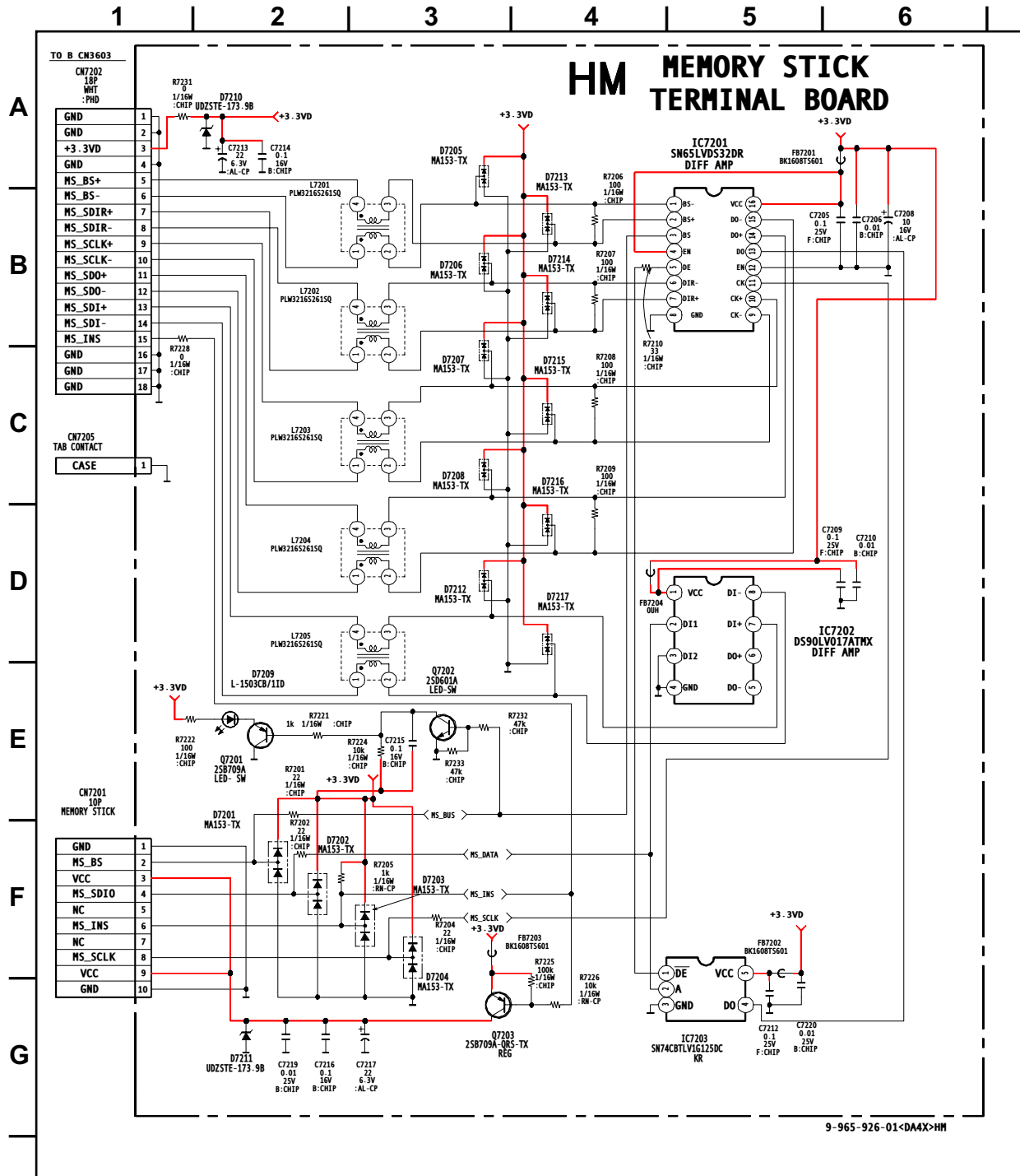
HB [VIDEO-2 INPUT]
COMPONENT SIDE

CONDUCTOR SIDE



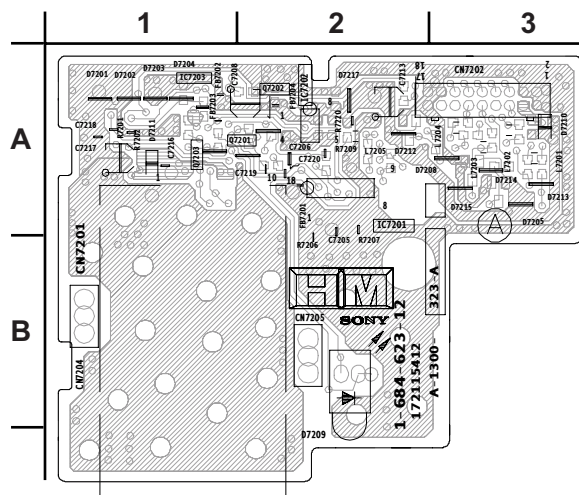
HM BOARD SCHEMATIC DIAGRAM

The HM board is not field repairable. If service is required, use the following part number to order a complete replacement board. A-1300-323-A HM Board, Complete

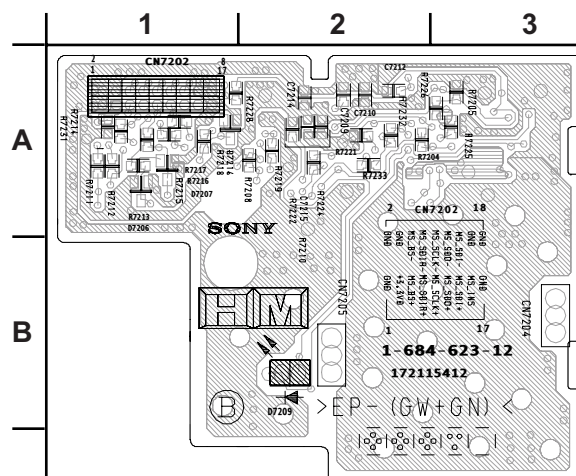




[MEMORY STICK, TERMINAL BOARD]
COMPONENT SIDE

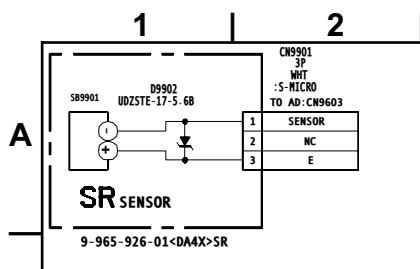


CONDUCTOR SIDE

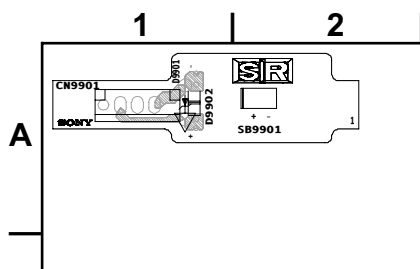


SR BOARD SCHEMATIC DIAGRAM

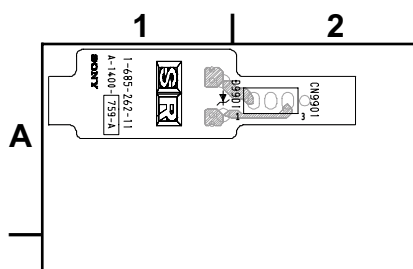
The SR board is not field repairable. If service is required, use the following part number to order a complete replacement board. A-1400-759-A SR Board, Complete



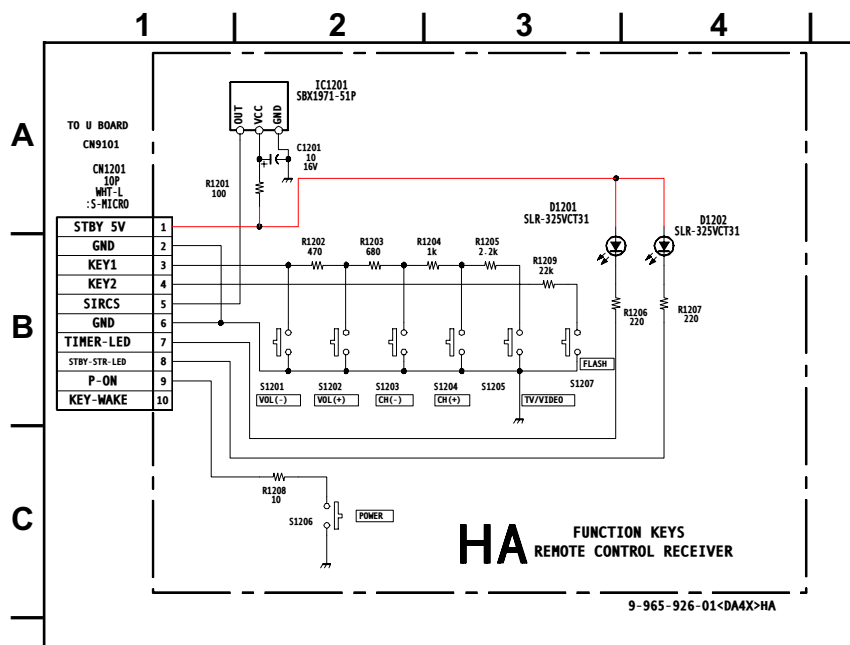
[SENSOR]
COMPONENT SIDE



CONDUCTOR SIDE

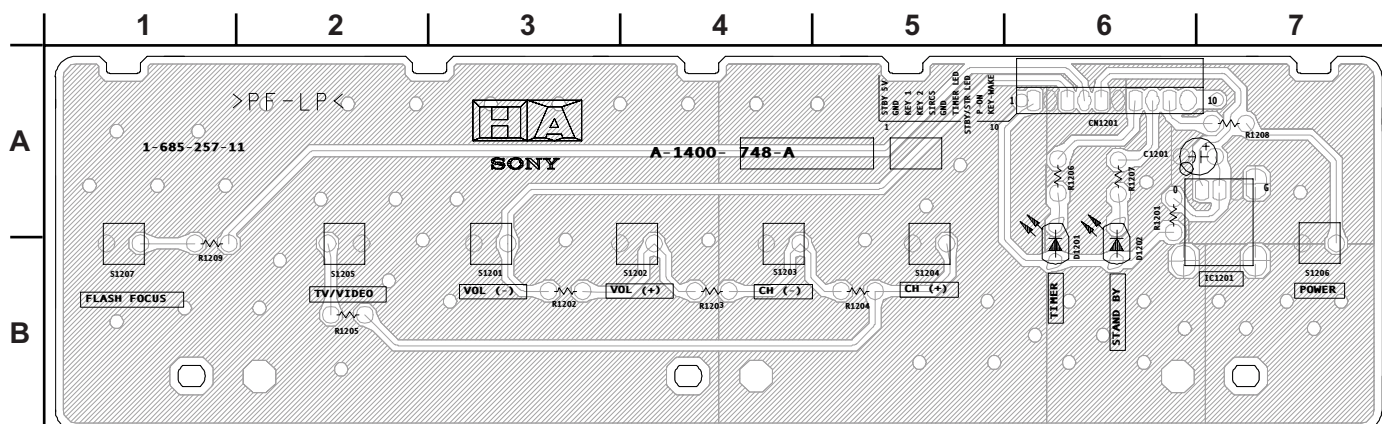


HA BOARD SCHEMATIC DIAGRAM

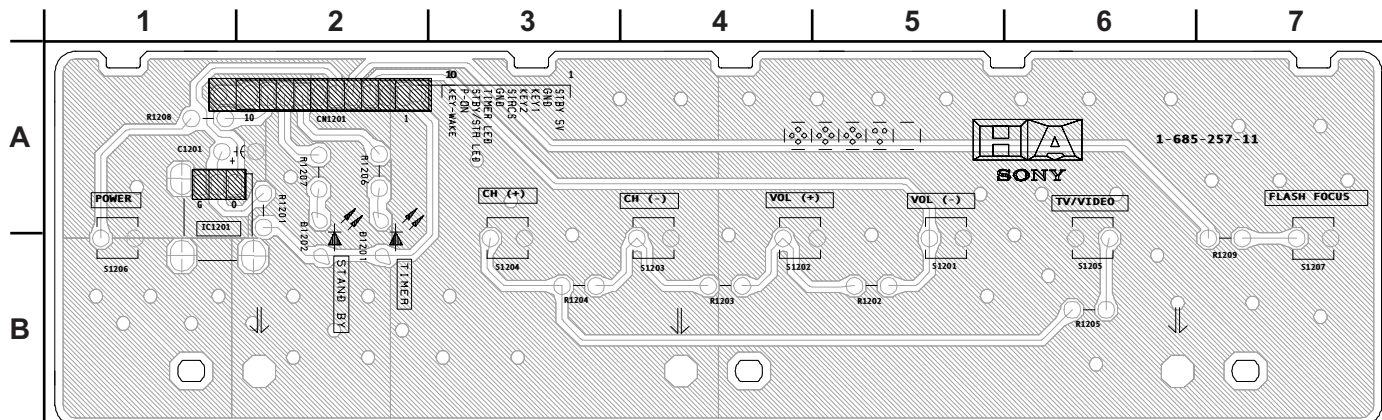


HA

[FUNCTION KEYS, REMOTE CONTROL RECEIVER]
COMPONENT SIDE

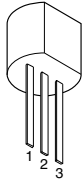


CONDUCTOR SIDE

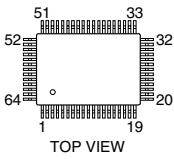


5-5. SEMICONDUCTORS

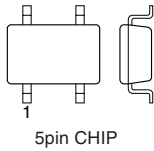
AN77L12-TA
NJM78L12A-T3
NJM79L05A
NJM79L05A-T3



CXA2069Q
CXA2150AQ

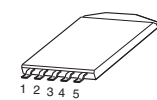


MAX4450EUK-TG069

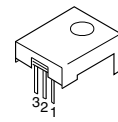


M24C04-WMN6T(A)
M24C32-WMN6T(A)
NJM2068V-TE2
NJM2521M(T-E2)
NJM2903M
NJM2903M-TE2
NJM2904M
NJM2904M(T-E2)
NJM4558M-T2
NJM4558M-TE2
NJM4558V-TE2
μPC4558G2

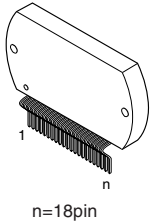
PST9143NL



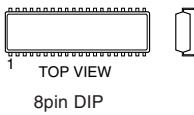
SBX1971-51P



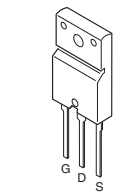
STK392-560



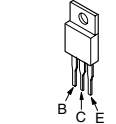
μPC393C



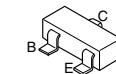
IRFIB7N50A-LF31



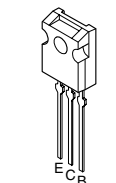
1MB12-140-F153A
2SA2005
2SC4634LS-CB11
2SC5511



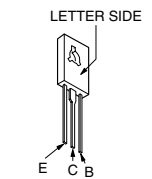
2SA1037AK-T146-QR
2SA1037AK-T146-R
2SA1226
2SA1226-T1E3E4
2SB709A-QRS-TX
2SC1623-L5L6
2SC2412K-T-146-QR
2SD601A-Q
2SD601A-QRS-TX



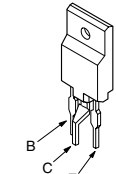
2SA1358-Y
2SC3421-Y



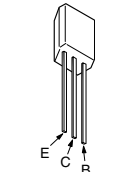
2SC2688(5)-LK



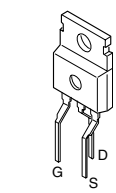
2SC5681-YB



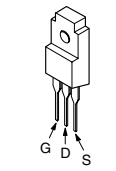
2SD2144S-TP-V
2SD2144S-V



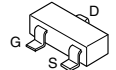
2SJ585LS-CC11



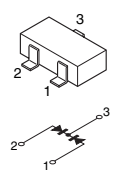
2SK2876-01MR-F122



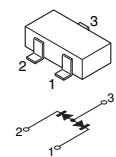
2SK3018-T106



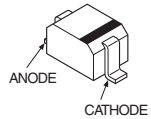
DAN202K
DAN202K-T-146



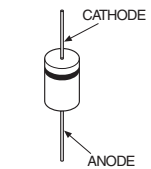
DAP202K
DAP202K-T-146



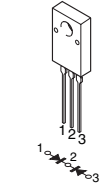
DTZ10B
MA111-TX
UDZ-TE-17- 8.2B
UDZ-TE-17-7.5B
UDZS-TE17-12B
UDZS-TE17-22B
UDZS-TE17-33B
UDZSTE-1710B
UDZSTE-1720B
UDZSTE-175.1B
UDZSTE-175.6B
UDZSTE-177.5B
UDZSTE-178.2B
1SS355TE-17



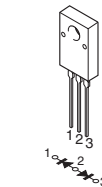
D1NL20U
D1NL20U-TA2
D2L20U
D2L20U-TA
EL1Z
ERA22-08
ERA22-08TP3
GP08D
GP08DPKG23
MTZJ-T-77-18B
MTZJ-T-77-22B
MTZJ-T-77-5.6B
RGP02-17EL-6433
RGP02-17PKG23
S2L40F
10ERA60-TP
1SS83
1SS83TD



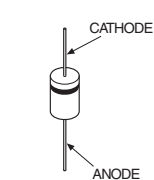
D10SC6M



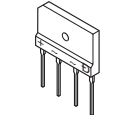
D10SC6MR



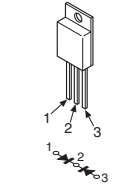
D2L20U-F
ERC04-06SE



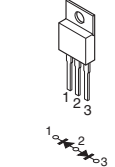
D2SB60A-F04
D4SBS4-F
D6SB60LF



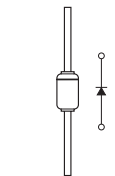
D25SC6MF04



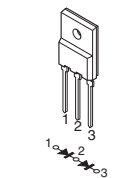
D25SC6MRF04



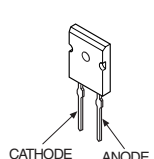
ERD07-15L



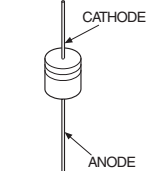
FCQ30A04



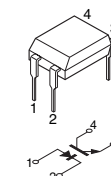
FMQ-G5FMS
PG124S15



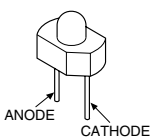
MTZJ-T-77-15B
MTZJ-T-77-20B
MTZJ-T-77-5.1B
RD15ES-B2
RD18ES-B2
RD20ES-B2
RD5.1ESB2
RD5.6ESB2
1SS133T-77



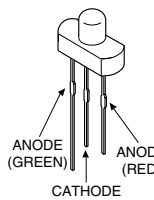
PC123F2
PC123FY2



SLR-325VCT31



SPR-325MVW



SECTION 6: EXPLODED VIEWS

Components not identified by a part number or description are not stocked because they are seldom required for routine service.

The component parts of an assembly are indicated by the reference numbers in the far right column of the parts list and within the dotted lines of the diagram.

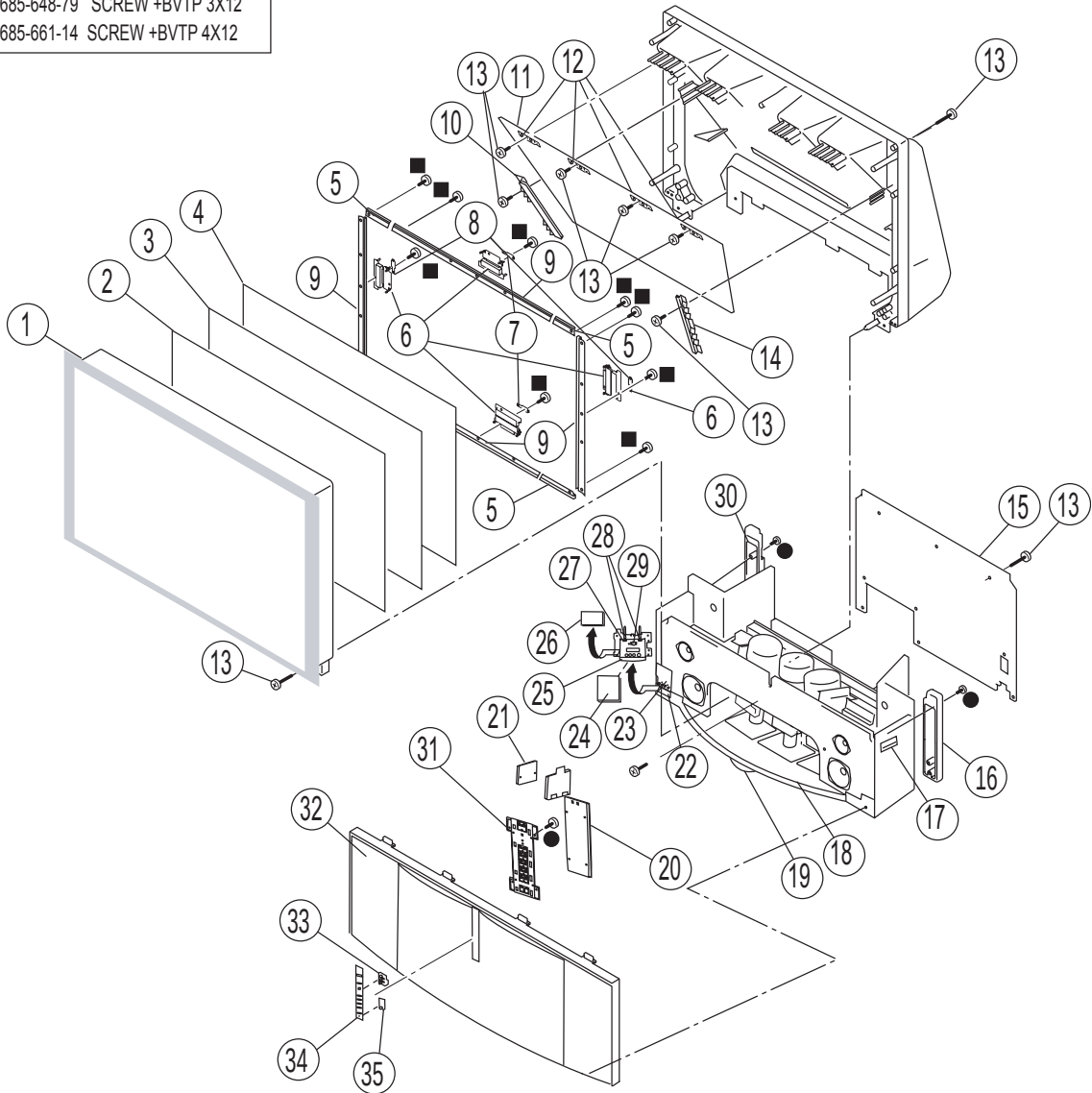
* Items marked with an asterisk are not stocked since they are seldom required for routine service. Expect some delay when ordering these components.

NOTE: The components identified by shading and  mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifiés par un trame et une marque  sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

6-1. COVER (KP-57WV600/57WV700 ONLY)

- 7-685-648-79 SCREW +BVTP 3X12
- 7-685-661-14 SCREW +BVTP 4X12



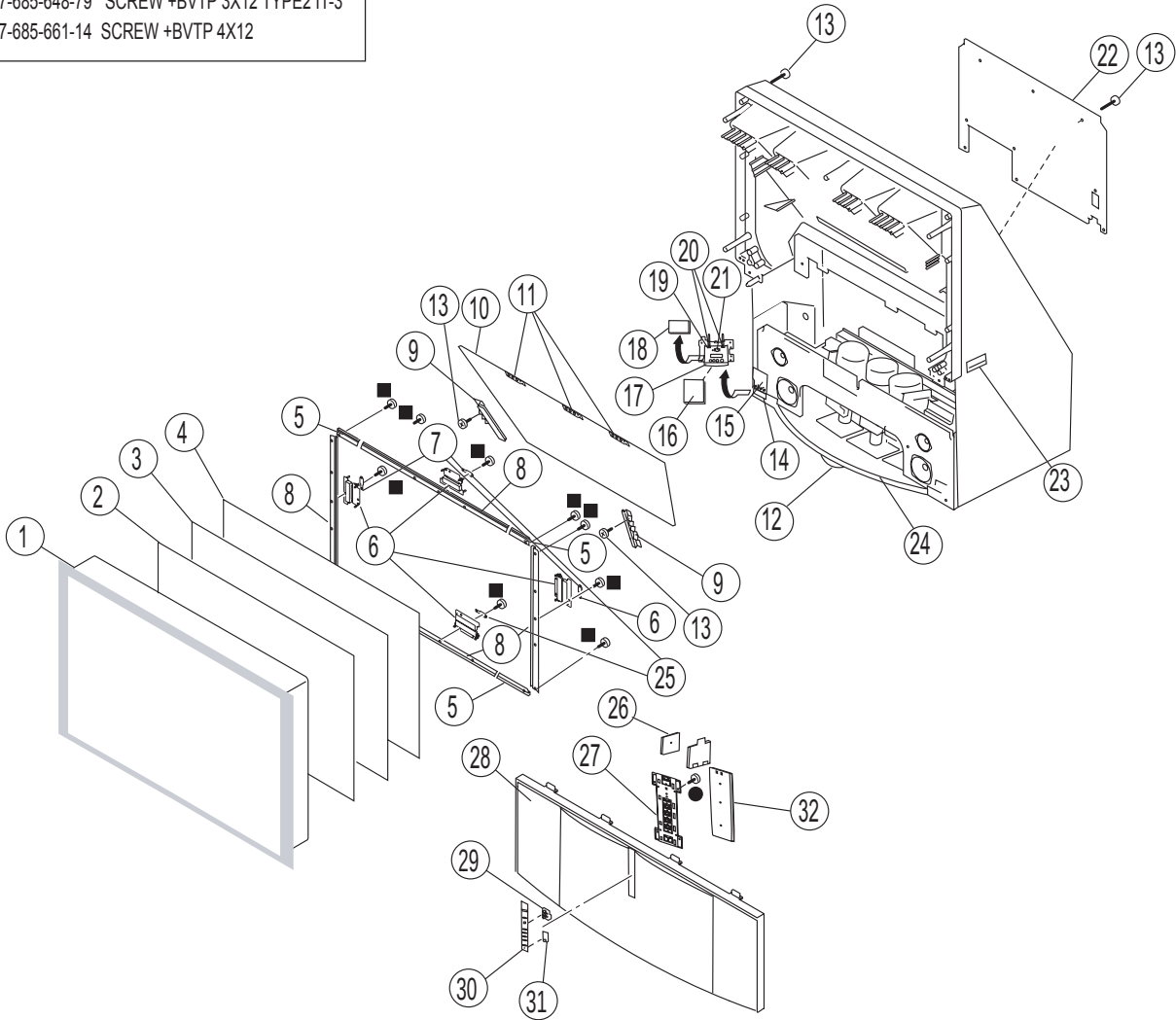
REF.NO.	PART NO.	DESCRIPTION	REF.NO.	PART NO.	DESCRIPTION
1	X-4040-450-1	BEZNET ASSY KP-57WV600 ONLY	18	4-088-631-01	SKIRT, FRONT KP-57WV600 ONLY
1	X-4040-448-1	BEZNET ASSY KP-57WV700 ONLY	18	4-088-603-01	SKIRT, FRONT KP-57WV700 ONLY
2	A-1603-725-A	CONTRAST SCREEN ASSY KP-57WV600 ONLY	19	4-075-020-01	FOOT, PLASTIC
2	A-1603-723-A	CONTRAST SCREEN ASSY KP-57WV700 ONLY	20	* A-1400-748-A	HA MOUNT
3	4-088-638-11	PLATE, DIFFUSION (WL) KP-57WV600 ONLY	21	* A-1300-323-A	HM COMPLETE PC BOARD
3	4-088-611-11	PLATE, DIFFUSION (WL) KP-57WV700 ONLY	22	4-088-572-01	LABEL, INPUT TERMINAL
4	4-088-637-11	PLATE, DIFFUSION (WF) KP-57WV600 ONLY	23	4-088-569-01	BRACKET, INPUT TERMINAL
4	4-088-610-11	PLATE, DIFFUSION (WF) KP-57WV700 ONLY	24	4-088-571-01	PLATE, INPUT TERMINAL
5	* 4-089-180-01	HOLDER, SCREEN SHORT	25	3-973-975-41	DAMPER, OIL
6	* A-1400-759-A	SR MOUNT	26	* A-1400-747-A	HB MOUNT
7	4-088-460-21	CUSHION, SCREEN	27	4-088-570-01	COVER, INPUT TERMINAL
8	4-088-460-31	CUSHION, SCREEN	28	4-088-573-01	SPRING
9	* 4-088-461-01	HOLDER, SCREEN	29	4-047-464-01	CATCHER, PUSH
10	* 4-088-600-01	HOLDER (L), MIRROR	30	* 4-088-629-01	PANEL L, SIDE KP-57WV600 ONLY
11	4-088-598-01	MIRROR	30	* 4-088-606-01	PANEL (L), SIDE KP-57WV700 ONLY
12	* 4-081-501-01	HOLDER, MIRROR	31	4-088-622-01	BUTTON KP-57WV600 ONLY
13	4-081-063-01	SCREW,DOME WASHER HEX TAP 4X20	31	4-088-585-01	BUTTON KP-57WV700 ONLY
14	* 4-088-601-01	HOLDER (R), MIRROR	32	X-4040-323-1	GRILLE ASSY, SPEAKER KP-57WV600 ONLY
15	* 4-088-115-01	BOARD, REAR KP-57WV600 ONLY	32	X-4040-326-1	GRILLE ASSY, SPEAKER KP-57WV700 ONLY
15	* 4-091-605-01	BOARD, REAR KP-57WV700 ONLY	33	4-088-588-01	GUIDE, LED
16	* 4-088-630-01	PANEL R, SIDE KP-57WV600 ONLY	34	4-088-621-01	PANEL, CONTROL KP-57WV600 ONLY
16	* 4-088-607-01	PANEL (R), SIDE KP-57WV700 ONLY	34	4-088-584-01	PANEL, CONTROL KP-57WV700 ONLY
17	* 4-088-541-01	HANDLE	35	4-088-586-01	GUIDE, LED

NOTE: The components identified by shading and  mark are critical for safety.
Replace only with part number specified.

NOTE: Les composants identifiés par un trame et une marque  sont critiques
pour la securite. Ne les remplacer que par une piece portant le numero specifie.

6-2. COVER (KP-65WV600/65WV700 ONLY)

- 7-685-648-79 SCREW +BVTP 3X12 TYPE2 IT-3
- 7-685-661-14 SCREW +BVTP 4X12



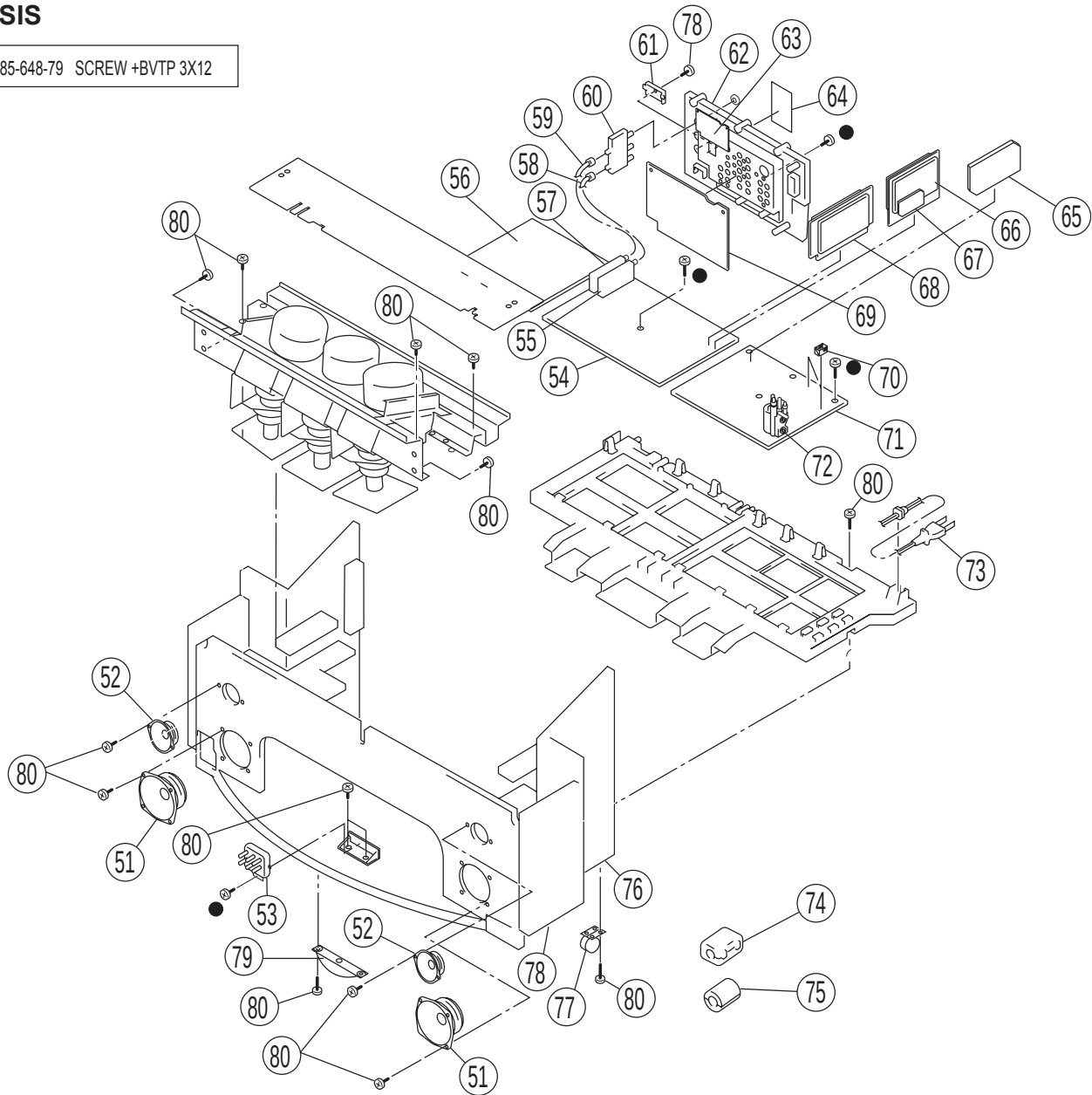
REF.NO.	PART NO.	DESCRIPTION	REF.NO.	PART NO.	DESCRIPTION
1	X-4040-449-1	BEZNET ASSY KP-65WV600 ONLY	17	3-973-975-41	DAMPER, OIL
1	X-4040-447-1	BEZNET ASSY KP-65WV700 ONLY	18	* A-1400-747-A	HB MOUNT
2	A-1603-724-A	CONTRAST SCREEN ASSY KP-65WV600 ONLY	19	4-088-570-01	COVER, INPUT TERMINAL
2	A-1603-722-A	CONTRAST SCREEN ASSY KP-65WV700 ONLY	20	4-088-573-01	SPRING
3	4-088-627-11	PLATE, DIFFUSION (WL) KP-65WV600 ONLY	21	4-047-464-01	CATCHER, PUSH
3	4-088-594-11	PLATE, DIFFUSION (WL) KP-65WV700 ONLY	22	* 4-088-575-01	BOARD, REAR
4	4-088-626-11	PLATE, DIFFUSION (WF) KP-65WV600 ONLY	23	* 4-088-541-01	HANDLE
4	4-088-596-11	PLATE, DIFFUSION (WF) KP-65WV700 ONLY	24	4-088-620-01	SKIRT, FRONT KP-65WV600 ONLY
5	* 4-089-179-01	HOLDER, SCREEN SHORT	24	4-088-574-01	SKIRT, FRONT KP-65WV700 ONLY
6	* A-1400-759-A	SR MOUNT	25	4-088-460-01	CUSHION, SCREEN
7	4-088-460-11	CUSHION, SCREEN	26	* A-1300-323-A	HM COMPLETE PC BOARD
8	* 4-088-461-01	HOLDER, SCREEN	27	4-088-622-01	BUTTON KP-65WV600 ONLY
9	4-088-579-01	HOLDER, MIRROR SLIDE	27	4-088-585-01	BUTTON KP-65WV700 ONLY
10	* 4-088-577-01	MIRROR	28	X-4040-321-1	GRILLE ASSY, SPEAKER KP-65WV600 ONLY
11	* 4-088-580-01	HOLDER, MIRROR BASE	28	X-4040-325-1	GRILLE ASSY, SPEAKER KP-65WV700 ONLY
12	4-075-020-01	FOOT, PLASTIC	29	4-088-588-01	GUIDE, LED
13	4-081-063-01	SCREW, DOME WASHER HEX TAP 4 X 20	30	4-088-621-01	PANEL, CONTROL KP-65WV600 ONLY
14	4-088-572-01	LABEL, INPUT TERMINAL	30	4-088-584-01	PANEL, CONTROL KP-65WV700 ONLY
15	4-088-569-01	BRACKET, INPUT TERMINAL	31	4-088-586-01	GUIDE, LED
16	4-088-571-01	PLATE, INPUT TERMINAL	32	* A-1400-748-A	HA MOUNT

NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifiés par un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

6-3. CHASSIS

- 7-685-648-79 SCREW +BVTP 3X12



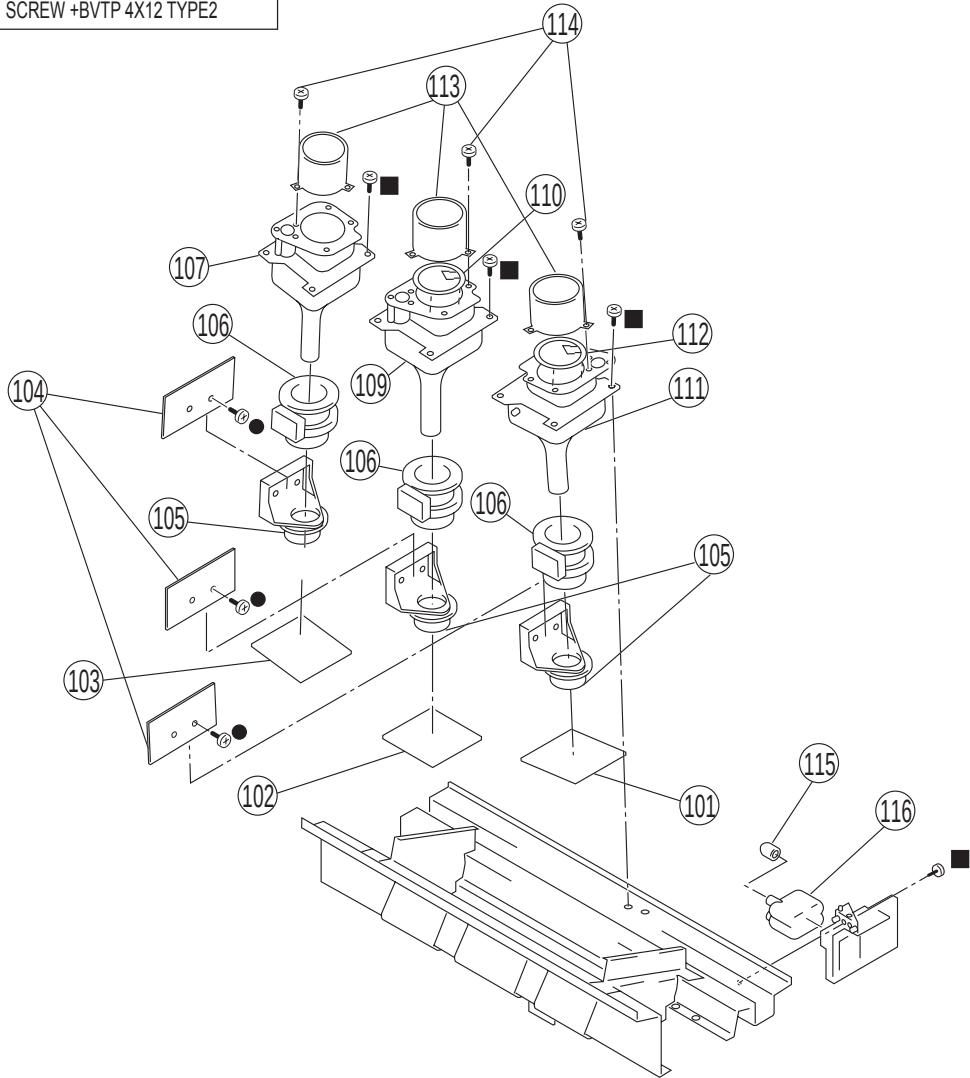
REF.NO.	PART NO.	DESCRIPTION	REF.NO.	PART NO.	DESCRIPTION
51	1-825-191-11	LOUDSPEAKER (13 CM)	70	3-710-578-01	COVER, VOLUME, 6 MOLD
52	1-825-200-11	LOUDSPEAKER (6.6 CM)	71	* A-1300-560-A	D COMPLETE The high-voltage leads associated with the FBT on this board are not included and must be ordered separately.
⚠ 53	1-223-925-81	RESISTOR ASSY (HIGH-VOLTAGE)	⚠ 72	1-453-285-51	FBT ASSY, NX-4006//X4P4
54	* A-1300-406-A	A COMPLETE	⚠ 72	1-779-095-51	LEAD ASSY, HIGH-VOLTAGE
55	8-598-593-50	TUNER, FSS BTF-WA421	⚠ 72	1-900-260-40	CONNECTOR ASSY, MV
56	* A-1300-410-A	G COMPLETE	⚠ 73	1-769-837-11	CORD, POWER(WITH NOISE FILTER)
57	8-598-594-30	TUNER, FSS BTF-FA421			
58	* 1-555-400-00	CABLE, PIN	74	1-500-082-11	CLAMP, FERRITE
59	* 1-557-056-31	CABLE, P-P	75	1-469-241-11	CORE, FERRITE
⚠ 60	1-771-787-13	SWITCH, RF ANTENNA	76	X-4040-459-1	CABINET ASSY KP-65WV600 ONLY
61	4-069-675-01	CAP, TERMINAL BOARD	76	X-4040-320-1	CABINET ASSY KP-65WV700 ONLY
62	4-088-590-01	BOARD, TERMINAL	77	3-184-556-01	CASTER
63	* A-1300-324-A	UD COMPLETE PC BOARD	78	4-030-850-01	SOCKET, CASTER
64	4-088-591-01	LABEL, TERMINAL	79	4-075-020-01	FOOT, PLASTIC
65	* A-1300-411-A	AD COMPLETE			
66	* A-1300-407-A	B COMPLETE	80	4-081-063-01	SCREW,DOME WASHER HEX TAP 4X20 KP-57WV600/57WV700 ONLY
67	* A-1300-408-A	MS1 COMPLETE			
68	* A-1300-646-A	M COMPLETE PC BOARD			
69	* A-1300-321-A	U COMPLETE PC BOARD			

NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifiés par un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

6-4. PICTURE TUBE

- 7-685-648-79 SCREW +BVTP 3X12 TYPE2 IT-3
- 7-685-661-14 SCREW +BVTP 4X12 TYPE2



REF.NO.	PART NO.	DESCRIPTION	REF.NO.	PART NO.	DESCRIPTION
101	A-1401-420-A	CB MOUNT (VAR) KP-57WV600/57WV700 ONLY	⚠ 109	8-733-652-15	CR 07MVC21(G)-L(VM) KP-57WV600/65WV600 ONLY
101	A-1401-387-A	CB MOUNT (VAR) KP-65WV600/65WV700 ONLY	⚠ 109	8-733-667-15	CR 07MVC22(G)-L KP-57WV700/65WV700 ONLY
102	A-1401-419-A	CG MOUNT (VAR) KP-57WV600/57WV700 ONLY	110	4-088-543-01	SHADE (G) KP-57WV700/65WV700 ONLY
102	A-1401-386-A	CG MOUNT (VAR) KP-65WV600/65WV700 ONLY	⚠ 111	8-733-648-15	CR 07MVC41(R)-L(VM) KP-57WV600 ONLY
103	* A-1401-385-A	CR MOUNT (VAR)	⚠ 111	8-733-669-15	CR 07MVC42(R)-L KP-57WV700 ONLY
104	* A-1401-589-A	VM MOUNT (VAR)	⚠ 111	8-733-666-15	CR 07MVC61(R)-L KP-65WV600 ONLY
⚠ 105	1-452-790-31	NECK ASSY	⚠ 111	8-733-664-15	CR 07MVC62(R)-L KP-65WV700 ONLY
⚠ 106	1-451-537-22	DEFLECTION YOKE	112	4-088-542-01	SHADE (R) KP-57WV700/65WV700 ONLY
⚠ 107	8-733-647-15	CR 07MVC41(B)-L(VM) KP-57WV600 ONLY	113	4-083-750-01	LENS (DELTA 260) KP-57WV600 ONLY
⚠ 107	8-733-668-15	CR 07MVC42(B)-L KP-57WV700 ONLY	113	4-087-841-01	LENS (DELTA 265) KP-57WV700/65WV700 ONLY
⚠ 107	8-733-665-15	CR 07MVC61(B)-L KP-65WV600 ONLY	113	4-087-842-01	LENS (DELTA 270) KP-65WV600 ONLY
⚠ 107	8-733-663-15	CR 07MVC62(B)-L KP-65WV700 ONLY	114	4-052-894-01	SCREW (4X20), HEAD TAPPING
			115	4-373-137-01	CAP (Z), RUBBER
			⚠ 116	8-598-955-31	BLOCK ASSY, HV HVB-1031

NOTE: The components identified by shading and  mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifiés par un trame et une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

CR

REF. NO.	PART NO.	DESCRIPTION	VALUES				REF. NO.	PART NO.	DESCRIPTION	VALUES			
CR													
*	A-1401-385-A	CR BOARD, MOUNTED (VAR)											
	4-382-854-11	SCREW (M3X10), P, SW (+)											
CAPACITOR													
C9101	1-104-570-11	CERAMIC	0.001μF	10%	2KV								
C9102	1-162-919-11	CERAMIC CHIP	22pF	5%	50V								
C9103	1-164-156-11	CERAMIC CHIP	0.1μF		25V								
C9105	1-107-962-11	ELECT	22μF	20%	250V								
C9106	1-161-830-00	CERAMIC	0.0047μF		500V								
C9107	1-101-003-00	CERAMIC	0.0047μF		50V								
C9108	1-126-935-11	ELECT	470μF	20%	16V								
C9110	1-164-156-11	CERAMIC CHIP	0.1μF		25V								
C9111	1-164-156-11	CERAMIC CHIP	0.1μF		25V								
C9112	1-126-933-11	ELECT	100μF	20%	16V								
C9114	1-162-966-11	CERAMIC CHIP	0.0022μF	10%	50V								
C9115	1-101-003-00	CERAMIC	0.0047μF		50V								
C9117	1-164-156-11	CERAMIC CHIP	0.1μF		25V								
CONNECTOR													
* CN9101	1-564-511-11	PLUG,CONNECTOR	8P										
* CN9102	1-564-507-11	PLUG,CONNECTOR	4P										
* CN9103	1-564-508-11	PLUG,CONNECTOR	5P										
CN9104	1-695-915-11	TAB (CONTACT)											
CN9107	1-785-879-11	CONNECTOR, ONE TOUCH											
CN9110	1-695-915-11	TAB (CONTACT)											
DIODE													
D9101	8-719-901-83	DIODE 1SS83TD											
D9104	8-719-901-83	DIODE 1SS83TD											
D9109	8-719-404-50	DIODE MA111-TX											
FERRITE BEAD													
FB9101	1-410-397-21	FERRITE	1.1μH										
IC													
IC9101	8-759-680-01	IC TDA6120Q/N2/S1											
JACK													
 J9101	1-251-182-41	SOCKET, CRT											
COIL													
L9101	1-414-856-11	INDUCTOR	10μH										
L9102	1-414-855-31	INDUCTOR	1μH										
L9103	1-414-856-11	INDUCTOR	10uH										

NEON LAMP													
NL9102	1-517-778-21	LAMP, NEON											
NL9103	1-517-778-21	LAMP, NEON											
TRANSISTOR													
Q9101	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR											
Q9102	8-729-028-28	TRANSISTOR 2SK2036(TE85L)											
Q9103	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR											
Q9104	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR											
Q9105	8-729-122-63	TRANSISTOR 2SA1226-T1E4											
RESISTOR													
R9101	1-260-133-11	CARBON	680K	5%	1/2W								
R9102	1-249-425-11	CARBON	4.7K	5%	1/4W								
R9103	1-216-809-11	RES-CHIP	100	5%	1/10W								
R9104	1-260-132-11	CARBON	560K	5%	1/2W								
R9105	1-218-696-11	METAL CHIP	1.5K	0.50%	1/16W								
R9106	1-218-680-11	METAL CHIP	330	0.50%	1/16W								
R9107	1-216-825-11	RES-CHIP	2.2K	5%	1/10W								
R9108	1-218-716-11	METAL CHIP	10K	0.50%	1/16W								
R9109	1-218-690-11	METAL CHIP	820	0.50%	1/16W								
R9114	1-218-700-11	METAL CHIP	2.2K	0.50%	1/16W								
R9115	1-218-708-11	METAL CHIP	4.7K	0.50%	1/16W								
R9116	1-260-328-11	CARBON	1K	5%	1/2W								
R9120	1-215-926-00	METAL OXIDE	33K	5%	3W								
R9121	1-260-087-11	CARBON	100	5%	1/2W								
R9122	1-260-320-11	CARBON	220	5%	1/2W								
R9126	1-218-748-11	METAL CHIP	220K	0.50%	1/16W								
R9127	1-218-748-11	METAL CHIP	220K	0.50%	1/16W								
R9129	1-216-829-11	RES-CHIP	4.7K	5%	1/10W								
R9131	1-216-823-11	RES-CHIP	1.5K	5%	1/10W								
R9132	1-216-833-11	RES-CHIP	10K	5%	1/10W								
R9133	1-216-809-11	RES-CHIP	100	5%	1/10W								
R9134	1-216-821-11	RES-CHIP	1K	5%	1/10W								
R9135	1-260-087-11	CARBON	100	5%	1/2W								
R9136	1-218-700-11	METAL CHIP	2.2K	0.50%	1/16W								
R9137	1-218-700-11	METAL CHIP	2.2K	0.50%	1/16W								
SPARK GAP													
SG9101	1-517-729-31	GAP, SPARK											
SG9102	1-519-422-11	GAP, SPARK											

NOTE: The components identified by shading and  mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifiés par un trame et une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

CG

REF. NO.	PART NO.	DESCRIPTION	VALUES				REF. NO.	PART NO.	DESCRIPTION	VALUES			
CG							COIL						
*	A-1401-386-A	CG BOARD, MOUNTED (VAR) (KV-65WV600/65WV700 ONLY)					L9201	1-414-856-11	INDUCTOR	10μH			
*	A-1401-419-A	CG BOARD, MOUNTED (VAR) (KV-57WV600/57WV700 ONLY)					L9202	1-414-855-31	INDUCTOR	1μH			
							L9203	1-414-856-11	INDUCTOR	10μH			
	4-382-854-11	SCREW (M3X10), P, SW (+)					NEON LAMP						
							NL9202	1-517-778-21	LAMP, NEON				
							NL9203	1-517-778-21	LAMP, NEON				
							TRANSISTOR						
C9201	1-107-662-11	ELECT	22μF	20%	250V	Q9201	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR					
C9202	1-104-570-11	CERAMIC	0.001μF	10%	2KV	Q9202	8-729-028-28	TRANSISTOR 2SK2036(TE85L)					
C9203	1-164-156-11	CERAMIC CHIP	0.1μF		25V	Q9203	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR					
C9204	1-126-935-11	ELECT	470μF	20%	16V	Q9204	8-729-122-63	TRANSISTOR 2SA1226-T1E4					
C9205	1-164-378-11	CERAMIC CHIP	30pF	5%	50V	RESISTOR							
C9207	1-164-156-11	CERAMIC CHIP	0.1μF		25V	R9201	1-260-133-11	CARBON	680K	5%	1/2W		
							R9202	1-260-132-11	CARBON	560K	5%	1/2W	
C9208	1-164-156-11	CERAMIC CHIP	0.1μF		25V	R9203	1-249-425-11	CARBON	4.7K	5%	1/4W		
C9209	1-101-003-00	CERAMIC	0.0047μF		50V	R9204	1-216-809-11	RES-CHIP	100	5%	1/10W		
C9211	1-126-933-11	ELECT	100μF	20%	16V	R9205	1-218-716-11	METAL CHIP	10K	0.50%	1/16W		
C9213	1-161-830-00	CERAMIC	0.0047μF		500V								
C9214	1-162-966-11	CERAMIC CHIP	0.0022μF	10%	50V	R9206	1-218-677-11	METAL CHIP	240	0.50%	1/16W		
								(KP-65WV600/65WV700 ONLY)					
C9216	1-101-003-00	CERAMIC	0.0047μF		50V	R9206	1-218-679-11	METAL CHIP	300	0.50%	1/16W		
C9217	1-164-156-11	CERAMIC CHIP	0.1μF		25V		(KP-57WV600/57WV700 ONLY)						
							R9207	1-218-694-11	METAL CHIP	1.2K	0.50%	1/16W	
							R9208	1-216-825-11	RES-CHIP	2.2K	5%	1/10W	
							R9209	1-218-690-11	METAL CHIP	820	0.50%	1/16W	
							R9216	1-218-699-11	METAL CHIP	2K	0.50%	1/16W	
							R9217	1-218-708-11	METAL CHIP	4.7K	0.50%	1/16W	
							R9220	1-215-926-00	METAL OXIDE	33K	5%	3W	
							R9221	1-260-328-11	CARBON	1K	5%	1/2W	
							R9222	1-260-087-11	CARBON	100	5%	1/2W	
							R9223	1-260-320-11	CARBON	220	5%	1/2W	
							R9225	1-218-744-11	METAL CHIP	150K	0.50%	1/16W	
							R9226	1-218-744-11	METAL CHIP	150K	0.50%	1/16W	
							R9228	1-216-829-11	RES-CHIP	4.7K	5%	1/10W	
							R9230	1-216-823-11	RES-CHIP	1.5K	5%	1/10W	
							R9231	1-260-087-11	CARBON	100	5%	1/2W	
							R9232	1-218-700-11	METAL CHIP	2.2K	0.50%	1/16W	
							R9233	1-218-700-11	METAL CHIP	2.2K	0.50%	1/16W	
							SPARK GAP						
							SG9201	1-517-729-31	GAP, SPARK				
							SG9202	1-519-422-11	GAP, SPARK				

NOTE: The components identified by shading and  mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifiés par un trame et une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

CB

REF. NO.	PART NO.	DESCRIPTION	VALUES				REF. NO.	PART NO.	DESCRIPTION	VALUES			
CB													
*	A-1401-387-A CB BOARD, MOUNTED (VAR) (KV-65WV600/65WV700 ONLY)												
*	A-1401-420-A CB BOARD, MOUNTED (VAR) (KV-57WV600/57WV700 ONLY)												
	4-382-854-11	SCREW (M3X10), P, SW (+)											
	CAPACITOR												
C9301	1-104-570-11	CERAMIC	0.001μF	10%	2KV								
C9302	1-101-003-00	CERAMIC	0.0047μF		50V								
C9303	1-107-662-11	ELECT	22μF	20%	250V								
C9304	1-162-920-11	CERAMIC CHIP	27pF	5%	50V								
C9305	1-162-916-11	CERAMIC CHIP	12pF	5%	50V								
C9306	1-164-156-11	CERAMIC CHIP	0.1μF		25V								
C9307	1-126-935-11	ELECT	470μF	20%	16V								
C9309	1-164-156-11	CERAMIC CHIP	0.1μF		25V								
C9310	1-164-156-11	CERAMIC CHIP	0.1μF		25V								
C9311	1-126-933-11	ELECT	100μF	20%	16V								
C9312	1-161-830-00	CERAMIC	0.0047μF		500V								
C9313	1-164-156-11	CERAMIC CHIP	0.1μF		25V								
C9314	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V								
C9315	1-162-966-11	CERAMIC CHIP	0.0022μF	10%	50V								
C9316	1-101-003-00	CERAMIC	0.0047μF		50V								
C9318	1-164-156-11	CERAMIC CHIP	0.1μF		25V								
C9320	1-125-891-11	CERAMIC CHIP	0.47μF	10%	10V								
	CONNECTOR												
*	CN9301	1-564-510-11	PLUG,CONNECTOR	7P									
*	CN9302	1-564-511-11	PLUG,CONNECTOR	8P									
*	CN9303	1-564-507-11	PLUG,CONNECTOR	4P									
	CN9304	1-695-915-11	TAB (CONTACT)										
	CN9308	1-785-879-11	CONNECTOR, ONE TOUCH										
*	CN9309	1-564-507-11	PLUG,CONNECTOR	4P									
	CN9310	1-695-915-11	TAB (CONTACT)										
	DIODE												
D9301	8-719-404-50	DIODE MA111-TX											
D9302	8-719-901-83	DIODE 1SS83TD											
D9303	8-719-404-50	DIODE MA111-TX											
D9309	8-719-901-83	DIODE 1SS83TD											
D9310	8-719-404-50	DIODE MA111-TX											
	FERRITE BEAD												
FB9301	1-410-397-21	FERRITE	1.1μH										

IC													
IC9301	8-759-680-01	IC TDA6120Q/N2/S1											
JACK													
⚠	J9301	1-251-182-41	SOCKET, CRT										
COIL													
L9301	1-414-856-11	INDUCTOR										10μH	
L9302	1-414-855-31	INDUCTOR										1μH	
L9303	1-414-856-11	INDUCTOR										10μH	
NEON LAMP													
NL9302	1-517-778-21	LAMP, NEON											
NL9303	1-517-778-21	LAMP, NEON											
TRANSISTOR													
Q9301	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX											
Q9302	8-729-028-28	TRANSISTOR 2SK2036(TE85L)											
Q9303	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR											
Q9304	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR											
Q9305	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR											
Q9306	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR											
Q9307	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR											
Q9308	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR											
Q9309	8-729-122-63	TRANSISTOR 2SA1226-T1E4											
RESISTOR													
R9301	1-216-809-11	RES-CHIP									100	5%	1/10W
R9302	1-218-680-11	METAL CHIP									330	0.50%	1/16W
R9303	1-260-133-11	CARBON									680K	5%	1/2W
R9304	1-260-132-11	CARBON									560K	5%	1/2W
R9306	1-218-682-11	METAL CHIP									390	0.50%	1/16W
(KP-65WV600/65WV700 ONLY)													
R9306	1-218-684-11	METAL CHIP									470	0.50%	1/16W
(KP-57WV600/57WV700 ONLY)													
R9307	1-218-696-11	METAL CHIP									1.5K	0.50%	1/16W
R9308	1-218-684-11	METAL CHIP									470	0.50%	1/16W
R9309	1-218-698-11	METAL CHIP									1.8K	0.50%	1/16W
R9313	1-218-724-11	METAL CHIP									22K	0.50%	1/16W
R9314	1-218-704-11	METAL CHIP									3.3K	0.50%	1/16W
R9315	1-218-706-11	METAL CHIP									3.9K	0.50%	1/16W
R9316	1-218-698-11	METAL CHIP									1.8K	0.50%	1/16W
R9317	1-218-708-11	METAL CHIP									4.7K	0.50%	1/16W

NOTE: The components identified by shading and  mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifiés par un trame et une  marque sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.



REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
R9318	1-216-825-11	RES-CHIP	2.2K	5%	1/10W	C1506	1-109-982-11	CERAMIC CHIP	1μF	10%	10V
R9319	1-249-425-11	CARBON	4.7K	5%	1/4W	C1507	1-109-982-11	CERAMIC CHIP	1μF	10%	10V
R9320	1-215-926-00	METAL OXIDE	33K	5%	3W	C1508	1-126-960-11	ELECT	1μF	20%	50V
R9323	1-260-328-11	CARBON	1K	5%	1/2W	C1509	1-126-960-11	ELECT	1μF	20%	50V
R9324	1-260-087-11	CARBON	100	5%	1/2W	C1510	1-126-960-11	ELECT	1μF	20%	50V
R9325	1-260-320-11	CARBON	220	5%	1/2W	C1511	1-126-960-11	ELECT	1μF	20%	50V
R9327	1-218-749-11	METAL CHIP	240K	0.50%	1/16W	C1512	1-126-960-11	ELECT	1μF	20%	50V
R9328	1-218-749-11	METAL CHIP	240K	0.50%	1/16W	C1513	1-126-960-11	ELECT	1μF	20%	50V
R9330	1-216-829-11	RES-CHIP	4.7K	5%	1/10W	C1519	1-162-913-11	CERAMIC CHIP	8pF	0.50pF	50V
R9332	1-216-823-11	RES-CHIP	1.5K	5%	1/10W	C1520	1-162-913-11	CERAMIC CHIP	8pF	0.50pF	50V
R9333	1-218-699-11	METAL CHIP	2K	0.50%	1/16W	C1521	1-125-837-91	CERAMIC CHIP	1μF	10%	6.3V
R9334	1-216-822-11	RES-CHIP	1.2K	5%	1/10W	C1522	1-125-837-91	CERAMIC CHIP	1μF	10%	6.3V
 R9335	1-249-393-11	CARBON	10	5%	1/4W	C1523	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
R9336	1-216-833-11	RES-CHIP	10K	5%	1/10W	C1524	1-109-982-11	CERAMIC CHIP	1μF	10%	10V
R9337	1-216-833-11	RES-CHIP	10K	5%	1/10W	C1525	1-164-156-11	CERAMIC CHIP	0.1μF		25V
R9338	1-216-821-11	RES-CHIP	1K	5%	1/10W	C1526	1-126-964-11	ELECT	10μF	20%	50V
R9339	1-260-087-11	CARBON	100	5%	1/2W	C1527	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
R9340	1-216-833-11	RES-CHIP	10K	5%	1/10W	C1528	1-126-933-11	ELECT	100μF	20%	16V
R9341	1-216-821-11	RES-CHIP	1K	5%	1/10W	C1529	1-109-982-11	CERAMIC CHIP	1μF	10%	10V
R9342	1-216-834-11	RES-CHIP	12K	5%	1/10W	C1530	1-126-964-11	ELECT	10μF	20%	50V
R9343	1-216-833-11	RES-CHIP	10K	5%	1/10W	C1531	1-126-941-11	ELECT	470μF	20%	25V
R9344	1-216-845-11	RES-CHIP	100K	5%	1/10W	C1532	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
R9345	1-216-829-11	RES-CHIP	4.7K	5%	1/10W	C1533	1-125-837-91	CERAMIC CHIP	1μF	10%	6.3V
R9346	1-216-833-11	RES-CHIP	10K	5%	1/10W	C1534	1-126-933-11	ELECT	100μF	20%	16V
R9347	1-216-809-11	RES-CHIP	100	5%	1/10W	C1535	1-126-933-11	ELECT	100μF	20%	16V
R9348	1-216-821-11	RES-CHIP	1K	5%	1/10W	C1536	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
R9349	1-216-805-11	RES-CHIP	47	5%	1/10W	C1537	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
R9350	1-218-700-11	METAL CHIP	2.2K	0.50%	1/16W	C1538	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
R9351	1-218-700-11	METAL CHIP	2.2K	0.50%	1/16W	C1539	1-164-156-11	CERAMIC CHIP	0.1μF		25V
SPARK GAP						C1540	1-126-933-11	ELECT	100μF	20%	16V
SG9301	1-517-729-31	GAP, SPARK				C1541	1-125-837-91	CERAMIC CHIP	1μF	10%	6.3V
SG9302	1-519-422-11	GAP, SPARK				C1542	1-126-960-11	ELECT	1μF	20%	50V
						C1544	1-126-960-11	ELECT	1μF	20%	50V
						C1545	1-126-933-11	ELECT	100μF	20%	16V
						C1546	1-164-156-11	CERAMIC CHIP	0.1μF		25V
						C1548	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
						C1550	1-126-960-11	ELECT	1μF	20%	50V
						C1551	1-126-960-11	ELECT	1μF	20%	50V
						C1552	1-126-960-11	ELECT	1μF	20%	50V
						C1553	1-126-960-11	ELECT	1μF	20%	50V
						C1554	1-126-960-11	ELECT	1μF	20%	50V
						C1555	1-126-960-11	ELECT	1μF	20%	50V
						C1556	1-126-933-11	ELECT	100μF	20%	16V
						C1557	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C1501	1-109-982-11	CERAMIC CHIP	1μF	10%	10V						
C1502	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V						
C1503	1-109-982-11	CERAMIC CHIP	1μF	10%	10V						
C1504	1-109-982-11	CERAMIC CHIP	1μF	10%	10V						
C1505	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V						

SPARK GAP

A-1300-321-A U BOARD, COMPLETE

CAPACITOR



*



REF. NO.	PART NO.	DESCRIPTION	VALUES	REF. NO.	PART NO.	DESCRIPTION	VALUES
C1558	1-126-933-11	ELECT	100μF 20% 16V	D1531	8-719-069-61	DIODE UDZSTE-1710B	
C1559	1-126-933-11	ELECT	100μF 20% 16V	D1532	8-719-069-61	DIODE UDZSTE-1710B	
C1560	1-126-933-11	ELECT	100μF 20% 16V	D1533	8-719-977-28	DIODE UDZSTE-1710B	
C1561	1-126-933-11	ELECT	100μF 20% 16V	D1534	8-719-977-28	DIODE UDZSTE-1710B	
C1562	1-126-933-11	ELECT	100μF 20% 16V	D1535	8-719-977-28	DIODE UDZSTE-1710B	
C1563	1-126-933-11	ELECT	100μF 20% 16V				
CONNECTOR				IC			
CN1501	1-764-334-11	PLUG,CONNECTOR	11P	IC1502	8-752-080-04	IC CXA2069Q	
CN1502	1-793-173-11	PIN, PCCONNECTOR(PC BOARD)	50P	IC1505	8-759-548-56	IC M52055FP	
CN1503	1-793-419-11	CONNECTOR, BOARD TO BOARD	4P				
DIODE				JACK			
D1501	8-719-977-28	DIODE UDZSTE-1710B		J1501	1-573-967-12	BLOCK, (S) TERMINAL	
D1502	8-719-977-28	DIODE UDZSTE-1710B		J1502	1-750-516-21	JACK BLOCK, PIN	2P
D1503	8-719-977-28	DIODE UDZSTE-1710B		J1503	1-750-517-21	JACK BLOCK, PIN	3P
D1504	8-719-977-28	DIODE UDZSTE-1710B		J1504	1-750-517-21	JACK BLOCK, PIN	3P
D1505	8-719-977-28	DIODE UDZSTE-1710B		J1505	1-764-143-11	JACK	
D1506	8-719-977-28	DIODE UDZSTE-1710B		J1506	1-764-143-11	JACK	
D1507	8-719-977-28	DIODE UDZSTE-1710B		J1507	1-750-516-21	JACKBLOCK, PIN	2P
D1508	8-719-977-28	DIODE UDZSTE-1710B		J1508	1-774-358-11	JACK BLOCK, PIN	
D1509	8-719-977-28	DIODE UDZSTE-1710B		J1509	1-774-358-11	JACK BLOCK, PIN	
D1510	8-719-977-28	DIODE UDZSTE-1710B					
D1511	8-719-977-28	DIODE UDZSTE-1710B		COIL			
D1512	8-719-977-28	DIODE UDZSTE-1710B		L1502	1-469-555-21	INDUCTOR	10μH
D1513	8-719-977-28	DIODE UDZSTE-1710B		L1503	1-469-555-21	INDUCTOR	10μH
D1514	8-719-977-28	DIODE UDZSTE-1710B		L1504	1-469-555-21	INDUCTOR	10μH
D1515	8-719-977-28	DIODE UDZSTE-1710B		L1505	1-469-555-21	INDUCTOR	10μH
D1516	8-719-977-28	DIODE UDZSTE-1710B		L1506	1-469-555-21	INDUCTOR	10μH
D1517	8-719-977-28	DIODE UDZSTE-1710B					
D1518	8-719-914-43	DIODE DAN202K-T-146		TRANSISTOR			
D1519	8-719-977-28	DIODE UDZSTE-1710B		Q1501	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
D1520	8-719-977-28	DIODE UDZSTE-1710B		Q1502	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
D1521	8-719-977-28	DIODE UDZSTE-1710B		Q1503	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
D1522	8-719-977-28	DIODE UDZSTE-1710B		Q1504	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
D1523	8-719-977-28	DIODE UDZSTE-1710B		Q1505	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
D1524	8-719-977-28	DIODE UDZSTE-1710B		Q1506	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
D1525	8-719-977-28	DIODE UDZSTE-1710B		Q1507	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
D1526	8-719-977-28	DIODE UDZSTE-1710B		Q1508	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
D1527	8-719-069-61	DIODE UDZSTE-1710B		Q1509	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
D1528	8-719-069-61	DIODE UDZSTE-1710B		Q1510	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
D1529	8-719-069-61	DIODE UDZSTE-1710B		Q1511	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
D1530	8-719-069-61	DIODE UDZSTE-1710B		Q1512	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
				Q1513	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
				Q1515	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
				Q1516	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	



REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
Q1518	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX				R1543	1-216-809-11	RES-CHIP	100	5%	1/10W
Q1519	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX				R1544	1-216-830-11	RES-CHIP	5.6K	5%	1/10W
Q1520	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX				R1545	1-216-830-11	RES-CHIP	5.6K	5%	1/10W
Q1521	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX				R1546	1-216-809-11	RES-CHIP	100	5%	1/10W
Q1522	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX				R1547	1-216-830-11	RES-CHIP	5.6K	5%	1/10W
Q1523	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX				R1548	1-216-841-11	RES-CHIP	47K	5%	1/10W
Q1524	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX				R1549	1-216-809-11	RES-CHIP	100	5%	1/10W
RESISTOR						R1550	1-216-809-11	RES-CHIP	100	5%	1/10W
R1501	1-216-853-11	RES-CHIP	470K	5%	1/10W	R1551	1-216-853-11	RES-CHIP	470K	5%	1/10W
R1502	1-216-853-11	RES-CHIP	470K	5%	1/10W	R1552	1-216-821-11	RES-CHIP	1K	5%	1/10W
R1503	1-218-665-11	METAL CHIP	75	0.50%	1/16W	R1554	1-216-809-11	RES-CHIP	100	5%	1/10W
R1504	1-218-665-11	METAL CHIP	75	0.50%	1/16W	R1555	1-216-853-11	RES-CHIP	470K	5%	1/10W
R1505	1-218-665-11	METAL CHIP	75	0.50%	1/16W	R1556	1-216-853-11	RES-CHIP	470K	5%	1/10W
R1506	1-216-853-11	RES-CHIP	470K	5%	1/10W	R1557	1-216-830-11	RES-CHIP	5.6K	5%	1/10W
R1507	1-216-853-11	RES-CHIP	470K	5%	1/10W	R1558	1-216-821-11	RES-CHIP	1K	5%	1/10W
R1508	1-218-665-11	METAL CHIP	75	0.50%	1/16W	R1559	1-218-665-11	METAL CHIP	75	0.50%	1/16W
R1509	1-218-665-11	METAL CHIP	75	0.50%	1/16W	R1560	1-216-845-11	RES-CHIP	100K	5%	1/10W
R1510	1-218-665-11	METAL CHIP	75	0.50%	1/16W	R1562	1-216-809-11	RES-CHIP	100	5%	1/10W
R1511	1-216-853-11	RES-CHIP	470K	5%	1/10W	R1563	1-216-830-11	RES-CHIP	5.6K	5%	1/10W
R1512	1-216-853-11	RES-CHIP	470K	5%	1/10W	R1565	1-216-809-11	RES-CHIP	100	5%	1/10W
R1513	1-218-665-11	METAL CHIP	75	0.50%	1/16W	R1566	1-216-809-11	RES-CHIP	100	5%	1/10W
R1514	1-216-821-11	RES-CHIP	1K	5%	1/10W	R1567	1-216-833-11	RES-CHIP	10K	5%	1/10W
R1520	1-216-825-11	RES-CHIP	2.2K	5%	1/10W	R1568	1-216-821-11	RES-CHIP	1K	5%	1/10W
R1521	1-216-825-11	RES-CHIP	2.2K	5%	1/10W	R1569	1-216-809-11	RES-CHIP	100	5%	1/10W
R1522	1-216-824-11	RES-CHIP	1.8K	5%	1/10W	R1570	1-216-809-11	RES-CHIP	100	5%	1/10W
R1523	1-216-824-11	RES-CHIP	1.8K	5%	1/10W	R1571	1-216-809-11	RES-CHIP	100	5%	1/10W
R1524	1-216-809-11	RES-CHIP	100	5%	1/10W	R1572	1-216-809-11	RES-CHIP	100	5%	1/10W
R1525	1-216-809-11	RES-CHIP	100	5%	1/10W	R1573	1-216-830-11	RES-CHIP	5.6K	5%	1/10W
R1526	1-216-821-11	RES-CHIP	1K	5%	1/10W	R1574	1-216-809-11	RES-CHIP	100	5%	1/10W
R1527	1-216-821-11	RES-CHIP	1K	5%	1/10W	R1575	1-216-809-11	RES-CHIP	100	5%	1/10W
R1530	1-216-809-11	RES-CHIP	100	5%	1/10W	R1576	1-216-833-11	RES-CHIP	10K	5%	1/10W
R1531	1-216-809-11	RES-CHIP	100	5%	1/10W	R1577	1-216-830-11	RES-CHIP	5.6K	5%	1/10W
R1532	1-216-809-11	RES-CHIP	100	5%	1/10W	R1578	1-216-857-11	RES-CHIP	1M	5%	1/10W
R1533	1-216-825-11	RES-CHIP	2.2K	5%	1/10W	R1579	1-216-842-11	RES-CHIP	56K	5%	1/10W
R1534	1-216-833-11	RES-CHIP	10K	5%	1/10W	R1580	1-216-809-11	RES-CHIP	100	5%	1/10W
R1535	1-216-821-11	RES-CHIP	1K	5%	1/10W	R1581	1-216-821-11	RES-CHIP	1K	5%	1/10W
R1536	1-216-821-11	RES-CHIP	1K	5%	1/10W	R1582	1-216-829-11	RES-CHIP	4.7K	5%	1/10W
R1537	1-216-821-11	RES-CHIP	1K	5%	1/10W	R1583	1-216-809-11	RES-CHIP	100	5%	1/10W
R1538	1-216-806-11	RES-CHIP	56	5%	1/10W	R1584	1-216-830-11	RES-CHIP	5.6K	5%	1/10W
R1539	1-216-805-11	RES-CHIP	47	5%	1/10W	R1585	1-216-821-11	RES-CHIP	1K	5%	1/10W
R1540	1-216-809-11	RES-CHIP	100	5%	1/10W	R1586	1-216-813-11	RES-CHIP	220	5%	1/10W
R1541	1-216-809-11	RES-CHIP	100	5%	1/10W	R1587	1-216-809-11	RES-CHIP	100	5%	1/10W
R1542	1-216-830-11	RES-CHIP	5.6K	5%	1/10W	R1588	1-216-830-11	RES-CHIP	5.6K	5%	1/10W
						R1589	1-216-813-11	RES-CHIP	220	5%	1/10W



REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
R1590	1-216-809-11	RES-CHIP	100	5%	1/10W	R1651	1-218-676-11	METAL CHIP	220	0.50%	1/16W
R1591	1-216-813-11	RES-CHIP	220	5%	1/10W	R1652	1-218-676-11	METAL CHIP	220	0.50%	1/16W
R1592	1-216-833-11	RES-CHIP	10K	5%	1/10W	R1653	1-218-676-11	METAL CHIP	220	0.50%	1/16W
R1593	1-216-809-11	RES-CHIP	100	5%	1/10W	R1654	1-218-676-11	METAL CHIP	220	0.50%	1/16W
R1594	1-216-830-11	RES-CHIP	5.6K	5%	1/10W	R1655	1-218-676-11	METAL CHIP	220	0.50%	1/16W
R1595	1-216-830-11	RES-CHIP	5.6K	5%	1/10W	R1656	1-218-676-11	METAL CHIP	220	0.50%	1/16W
R1596	1-216-830-11	RES-CHIP	5.6K	5%	1/10W	R1657	1-218-676-11	METAL CHIP	220	0.50%	1/16W
R1597	1-216-809-11	RES-CHIP	100	5%	1/10W	R1658	1-218-676-11	METAL CHIP	220	0.50%	1/16W
R1598	1-216-830-11	RES-CHIP	5.6K	5%	1/10W	R1659	1-218-676-11	METAL CHIP	220	0.50%	1/16W
R1600	1-216-809-11	RES-CHIP	100	5%	1/10W	R1660	1-218-676-11	METAL CHIP	220	0.50%	1/16W
R1604	1-216-825-11	RES-CHIP	2.2K	5%	1/10W	VARISTOR					
R1607	1-216-845-11	RES-CHIP	100K	5%	1/10W	VD1516	1-803-974-21	VARISTOR, CHIP	UD The UD board is <u>not</u> field repairable. If service is required, use the following part number to order a complete replacement board. Data is provided for reference only.		
R1608	1-216-849-11	RES-CHIP	220K	5%	1/10W						
R1609	1-216-833-11	RES-CHIP	10K	5%	1/10W						
R1610	1-216-849-11	RES-CHIP	220K	5%	1/10W						
R1612	1-216-849-11	RES-CHIP	220K	5%	1/10W						
R1613	1-216-845-11	RES-CHIP	100K	5%	1/10W	* A-1300-324-A UD BOARD, COMPLETE					
R1615	1-216-841-11	RES-CHIP	47K	5%	1/10W	CAPACITOR					
R1616	1-216-833-11	RES-CHIP	10K	5%	1/10W	C7001	1-126-395-11	ELECT CHIP	22µF	20%	16V
R1617	1-216-845-11	RES-CHIP	100K	5%	1/10W	C7002	1-162-917-11	CERAMIC CHIP	15pF	5%	50V
R1618	1-216-864-11	SHORT CHIP	0			C7004	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
R1619	1-216-809-11	RES-CHIP	100	5%	1/10W	C7005	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
R1620	1-216-809-11	RES-CHIP	100	5%	1/10W	C7006	1-124-779-00	ELECT CHIP	10µF	20%	16V
R1621	1-216-853-11	RES-CHIP	470K	5%	1/10W	C7007	1-162-917-11	CERAMIC CHIP	15pF	5%	50V
R1622	1-216-853-11	RES-CHIP	470K	5%	1/10W	C7008	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
R1623	1-216-853-11	RES-CHIP	470K	5%	1/10W	C7010	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
R1624	1-216-853-11	RES-CHIP	470K	5%	1/10W	C7011	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
R1625	1-218-676-11	METAL CHIP	220	0.50%	1/16W	C7012	1-124-779-00	ELECT CHIP	10µF	20%	16V
R1626	1-218-676-11	METAL CHIP	220	0.50%	1/16W	C7013	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
R1627	1-218-676-11	METAL CHIP	220	0.50%	1/16W	C7014	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
R1628	1-216-853-11	RES-CHIP	470K	5%	1/10W	C7015	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
R1629	1-216-853-11	RES-CHIP	470K	5%	1/10W	C7016	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
R1630	1-218-676-11	METAL CHIP	220	0.50%	1/16W	C7017	1-164-156-11	CERAMIC CHIP	0.1µF		25V
R1631	1-218-676-11	METAL CHIP	220	0.50%	1/16W	C7018	1-162-923-11	CERAMIC CHIP	47pF	5%	50V
R1632	1-218-676-11	METAL CHIP	220	0.50%	1/16W	C7019	1-162-923-11	CERAMIC CHIP	47pF	5%	50V
R1635	1-216-821-11	RES-CHIP	1K	5%	1/10W	C7020	1-162-923-11	CERAMIC CHIP	47pF	5%	50V
R1636	1-216-821-11	RES-CHIP	1K	5%	1/10W	C7021	1-124-779-00	ELECT CHIP	10µF	20%	16V
R1637	1-216-821-11	RES-CHIP	1K	5%	1/10W	C7022	1-115-416-11	CERAMIC CHIP	0.001µF	5%	25V
R1645	1-216-809-11	RES-CHIP	100	5%	1/10W						
R1646	1-216-864-11	SHORT CHIP	0								
R1647	1-216-864-11	SHORT CHIP	0								
R1648	1-216-864-11	SHORT CHIP	0								
R1649	1-218-676-11	METAL CHIP	220	0.50%	1/16W						
R1650	1-218-676-11	METAL CHIP	220	0.50%	1/16W						



REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES	
C7023	1-162-927-11	CERAMIC CHIP	100pF	5%	50V	C7070	1-164-156-11	CERAMIC CHIP	0.1μF	25V
C7024	1-124-779-00	ELECT CHIP	10μF	20%	16V	C7071	1-164-156-11	CERAMIC CHIP	0.1μF	25V
C7025	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C7078	1-164-156-11	CERAMIC CHIP	0.1μF	25V
C7026	1-124-779-00	ELECT CHIP	10μF	20%	16V	C7079	1-164-156-11	CERAMIC CHIP	0.1μF	25V
C7027	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C7080	1-164-156-11	CERAMIC CHIP	0.1μF	25V
C7028	1-164-156-11	CERAMIC CHIP	0.1μF		25V	CONNECTOR				
C7029	1-164-156-11	CERAMIC CHIP	0.1μF		25V	* CN7001	1-816-228-21	CONNECTOR, DIV		
C7030	1-162-927-11	CERAMIC CHIP	100pF	5%	50V	* CN7002	1-564-526-11	PLUG,CONNECTOR	11P	
C7031	1-162-927-11	CERAMIC CHIP	100pF	5%	50V	* CN7004	1-564-519-11	PLUG,CONNECTOR	4P	
C7032	1-162-927-11	CERAMIC CHIP	100pF	5%	50V	DIODE				
C7033	1-124-779-00	ELECT CHIP	10μF	20%	16V	D7001	8-719-914-43	DIODE DAN202K-T-146		
C7034	1-164-156-11	CERAMIC CHIP	0.1μF		25V	D7002	8-719-069-55	DIODE UDZSTE-175.6B		
C7035	1-164-156-11	CERAMIC CHIP	0.1μF		25V	D7003	8-719-069-55	DIODE UDZSTE-175.6B		
C7036	1-164-156-11	CERAMIC CHIP	0.1μF		25V	D7004	8-719-069-55	DIODE UDZSTE-175.6B		
C7037	1-164-156-11	CERAMIC CHIP	0.1μF		25V	D7006	8-719-069-55	DIODE UDZSTE-175.6B		
C7038	1-164-156-11	CERAMIC CHIP	0.1μF		25V	FERRITE BEAD				
C7039	1-126-395-11	ELECT CHIP	22μF	20%	16V	FB7001	1-414-760-21	FERRITE	0μH	
C7040	1-162-921-11	CERAMIC CHIP	33pF	5%	50V	FB7002	1-414-760-21	FERRITE	0μH	
C7041	1-164-156-11	CERAMIC CHIP	0.1μF		25V	FB7003	1-414-760-21	FERRITE	0μH	
C7042	1-164-156-11	CERAMIC CHIP	0.1μF		25V	FB7004	1-414-760-21	FERRITE	0μH	
C7043	1-164-156-11	CERAMIC CHIP	0.1μF		25V	FILTER				
C7044	1-164-156-11	CERAMIC CHIP	0.1μF		25V	FL7001	1-400-087-21	FILTER, EMI REMOVAL (SMD)		
C7045	1-164-156-11	CERAMIC CHIP	0.1μF		25V	FL7002	1-234-560-21	FILTER, LOW PASS		
C7046	1-164-156-11	CERAMIC CHIP	0.1μF		25V	FL7003	1-234-559-21	FILTER, LOW PASS		
C7047	1-164-156-11	CERAMIC CHIP	0.1μF		25V	FL7004	1-234-559-21	FILTER, LOW PASS		
C7048	1-164-156-11	CERAMIC CHIP	0.1μF		25V	IC				
C7049	1-164-156-11	CERAMIC CHIP	0.1μF		25V	IC7001	8-759-640-39	IC BR24C02F-WE2		
C7050	1-164-156-11	CERAMIC CHIP	0.1μF		25V	IC7002	8-749-015-18	IC PQ07VZ012ZP		
C7051	1-164-156-11	CERAMIC CHIP	0.1μF		25V	IC7003	8-749-015-18	IC PQ07VZ012ZP		
C7052	1-164-156-11	CERAMIC CHIP	0.1μF		25V	IC7004	6-702-080-01	IC GM7030-H		
C7053	1-164-156-11	CERAMIC CHIP	0.1μF		25V	IC7005	6-801-520-01	IC ST72631K4M1		
C7056	1-126-395-11	ELECT CHIP	22μF	20%	16V	IC7006	8-759-641-86	IC BR24C16F-E2		
C7057	1-162-921-11	CERAMIC CHIP	33pF	5%	50V	IC7007	6-702-170-01	IC PACDN006S		
C7058	1-164-156-11	CERAMIC CHIP	0.1μF		25V	IC7008	6-702-170-01	IC PACDN006S		
C7059	1-164-156-11	CERAMIC CHIP	0.1μF		25V	IC7009	6-702-170-01	IC PACDN006S		
C7060	1-164-156-11	CERAMIC CHIP	0.1μF		25V	COIL				
C7061	1-164-156-11	CERAMIC CHIP	0.1μF		25V	L7001	1-412-058-11	INDUCTOR	10μH	
C7062	1-164-156-11	CERAMIC CHIP	0.1μF		25V	L7002	1-412-058-11	INDUCTOR	10μH	
C7064	1-126-395-11	ELECT CHIP	22μF	20%	16V					
C7065	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V					
C7066	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V					
C7067	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V					
C7068	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V					
C7069	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V					

NOTE: The components identified by shading and  mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifiés par un triangle et une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.



REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES			
RESISTOR						R7075	1-218-676-11	METAL CHIP	220	0.50%	1/16W	
R7003	1-216-821-11	RES-CHIP	1K	5%	1/10W	R7080	1-218-704-11	METAL CHIP	3.3K	0.50%	1/16W	
R7004	1-218-852-11	RES-CHIP	1.6K	5%	1/10W	R7087	1-218-680-11	METAL CHIP	330	0.50%	1/16W	
R7007	1-216-821-11	RES-CHIP	1K	5%	1/10W	R7096	1-216-833-11	RES-CHIP	10K	5%	1/10W	
R7012	1-216-821-11	RES-CHIP	1K	5%	1/10W	R7097	1-216-809-11	RES-CHIP	100	5%	1/10W	
R7013	1-216-821-11	RES-CHIP	1K	5%	1/10W	R7098	1-216-809-11	RES-CHIP	100	5%	1/10W	
R7014	1-216-821-11	RES-CHIP	1K	5%	1/10W	R7099	1-216-809-11	RES-CHIP	100	5%	1/10W	
R7015	1-216-833-11	RES-CHIP	10K	5%	1/10W	R7101	1-216-864-11	SHORT CHIP	0			
R7016	1-216-833-11	RES-CHIP	10K	5%	1/10W	R7106	1-216-833-11	RES-CHIP	10K	5%	1/10W	
R7020	1-216-833-11	RES-CHIP	10K	5%	1/10W	R7108	1-216-805-11	RES-CHIP	47	5%	1/10W	
R7021	1-216-833-11	RES-CHIP	10K	5%	1/10W	R7109	1-216-805-11	RES-CHIP	47	5%	1/10W	
R7023	1-216-833-11	RES-CHIP	10K	5%	1/10W	R7111	1-216-864-11	SHORT CHIP	0			
R7024	1-216-833-11	RES-CHIP	10K	5%	1/10W	R7112	1-216-864-11	SHORT CHIP	0			
R7025	1-216-833-11	RES-CHIP	10K	5%	1/10W	R7113	1-216-864-11	SHORT CHIP	0			
R7026	1-216-833-11	RES-CHIP	10K	5%	1/10W	R7114	1-218-700-11	METAL CHIP	2.2K	0.50%	1/16W	
R7029	1-218-692-11	METAL CHIP	1K	0.50%	1/16W	R7115	1-218-700-11	METAL CHIP	2.2K	0.50%	1/16W	
R7030	1-216-864-11	SHORT CHIP	0			R7116	1-218-700-11	METAL CHIP	2.2K	0.50%	1/16W	
R7032	1-218-676-11	METAL CHIP	220	0.50%	1/16W	R7117	1-218-668-11	METAL CHIP	100	0.50%	1/16W	
R7034	1-218-676-11	METAL CHIP	220	0.50%	1/16W	R7119	1-218-668-11	METAL CHIP	100	0.50%	1/16W	
R7036	1-218-704-11	METAL CHIP	3.3K	0.50%	1/16W	R7121	1-216-864-11	SHORT CHIP	0			
R7037	1-218-676-11	METAL CHIP	220	0.50%	1/16W	R7123	1-218-704-11	METAL CHIP	3.3K	0.50%	1/16W	
R7041	1-216-833-11	RES-CHIP	10K	5%	1/10W	R7124	1-218-680-11	METAL CHIP	330	0.50%	1/16W	
R7043	1-216-829-11	RES-CHIP	4.7K	5%	1/10W	R7125	1-218-700-11	METAL CHIP	2.2K	0.50%	1/16W	
R7044	1-216-829-11	RES-CHIP	4.7K	5%	1/10W	R7126	1-216-864-11	SHORT CHIP	0			
R7045	1-216-833-11	RES-CHIP	10K	5%	1/10W	CRYSTAL						
R7047	1-216-833-11	RES-CHIP	10K	5%	1/10W	X7001	1-795-568-21	VIBRATOR, CRYSTAL				
R7051	1-216-864-11	SHORT CHIP	0			X7002	1-795-567-21	VIBRATOR, CRYSTAL				
R7053	1-216-833-11	RES-CHIP	10K	5%	1/10W							
R7054	1-216-833-11	RES-CHIP	10K	5%	1/10W							
R7056	1-216-833-11	RES-CHIP	10K	5%	1/10W							
R7057	1-216-864-11	SHORT CHIP	0			*	A-1300-406-A	A BOARD, COMPLETE				
R7058	1-216-833-11	RES-CHIP	10K	5%	1/10W	*	4-374-846-11	COVER,CAPACITOR, CAP TYPE				
R7059	1-216-864-11	SHORT CHIP	0				4-382-854-01	SCREW (M3X8), P, SW (+)				
R7060	1-216-833-11	RES-CHIP	10K	5%	1/10W	CAPACITOR						
R7061	1-216-833-11	RES-CHIP	10K	5%	1/10W		C503	1-136-311-11	MYLAR	0.47μF	20%	125V
R7062	1-216-864-11	SHORT CHIP	0				C505	1-117-700-41	CERAMIC	0.0022μF	20%	250V
R7065	1-216-833-11	RES-CHIP	10K	5%	1/10W	C506	1-126-971-11	ELECT	470μF	20%	50V	
R7066	1-218-694-11	METAL CHIP	1.2K	0.50%	1/16W	C507	1-126-943-11	ELECT	2200μF	20%	25V	
R7067	1-216-833-11	RES-CHIP	10K	5%	1/10W		C508	1-117-700-41	CERAMIC	0.0022μF	20%	250V
R7068	1-216-801-11	RES-CHIP	22	5%	1/10W	C510	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	
R7069	1-216-801-11	RES-CHIP	22	5%	1/10W	C511	1-126-967-11	ELECT	47μF	20%	50V	
R7071	1-216-803-11	RES-CHIP	33	5%	1/10W	C513	1-126-961-11	ELECT	2.2μF	20%	50V	
R7072	1-216-803-11	RES-CHIP	33	5%	1/10W							



REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
C515	1-126-947-11	ELECT	47μF	20%	25V	C577	1-126-960-11	ELECT	1μF	20%	50V
C516	1-162-966-11	CERAMIC CHIP	0.0022μF	10%	50V	C578	1-126-964-11	ELECT	10μF	20%	50V
C517	1-104-665-11	ELECT	100μF	20%	25V	C579	1-126-964-11	ELECT	10μF	20%	50V
C518	1-126-967-11	ELECT	47μF	20%	50V	C580	1-126-964-11	ELECT	10μF	20%	50V
C519	1-162-966-11	CERAMIC CHIP	0.0022μF	10%	50V	C583	1-126-960-11	ELECT	1μF	20%	50V
C520	1-162-966-11	CERAMIC CHIP	0.0022μF	10%	50V	C584	1-126-960-11	ELECT	1μF	20%	50V
C521	1-104-665-11	ELECT	100μF	20%	25V	C585	1-126-960-11	ELECT	1μF	20%	50V
C522	1-126-964-11	ELECT	10μF	20%	50V	C591	1-126-969-11	ELECT	220μF	20%	50V
C523	1-104-665-11	ELECT	100μF	20%	25V	C593	1-126-969-11	ELECT	220μF	20%	50V
C524	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C595	1-126-969-11	ELECT	220μF	20%	50V
C525	1-162-966-11	CERAMIC CHIP	0.0022μF	10%	50V	C597	1-162-964-11	CERAMIC CHIP	0.001μF	10%	50V
C526	1-162-927-11	CERAMIC CHIP	100pF	5%	50V	C598	1-130-495-00	MYLAR	0.1μF	5%	50V
C527	1-162-966-11	CERAMIC CHIP	0.0022μF	10%	50V	C599	1-126-974-11	ELECT	3300μF	20%	50V
C528	1-126-933-11	ELECT	100μF	20%	16V	C601	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C529	1-126-941-11	ELECT	470μF	20%	25V	C607	1-130-495-00	MYLAR	0.1μF	5%	50V
C530	1-126-941-11	ELECT	470μF	20%	25V	C611	1-130-495-00	MYLAR	0.1μF	5%	50V
C535	1-115-156-11	CERAMIC CHIP	1μF		10V	C612	1-128-550-11	ELECT	2200μF	20%	50V
C536	1-126-933-11	ELECT	100μF	20%	16V	C613	1-128-550-11	ELECT	2200μF	20%	50V
C538	1-165-176-11	CERAMIC CHIP	0.047μF	10%	16V	C901	1-126-939-11	ELECT	10000μF	20%	16V
C540	1-126-767-11	ELECT	1000μF	20%	16V	C902	1-126-947-11	ELECT	47μF	20%	25V
C541	1-162-961-11	CERAMIC CHIP	330pF	10%	50V	CONNECTOR					
C542	1-126-941-11	ELECT	470μF	20%	25V	CN501	1-695-915-11	TAB (CONTACT)			
C547	1-126-767-11	ELECT	1000μF	20%	16V	CN502	1-695-915-11	TAB (CONTACT)			
C548	1-162-966-11	CERAMIC CHIP	0.0022μF	10%	50V	CN503	1-580-843-11	PIN,CONNECTOR (POWER)			
C549	1-162-966-11	CERAMIC CHIP	0.0022μF	10%	50V	CN507	1-764-812-11	CONNECTOR, BOARD TO BOARD		11P	
C550	1-162-966-11	CERAMIC CHIP	0.0022μF	10%	50V	* CN508	1-779-892-11	CONNECTOR, BOARD TO BOARD		10P	
C551	1-126-933-11	ELECT	100μF	20%	16V	* CN509	1-779-892-11	CONNECTOR, BOARD TO BOARD		10P	
C553	1-126-767-11	ELECT	1000μF	20%	16V	CN510	1-793-494-11	CONNECTOR, BOARD TO BOARD		40P	
C554	1-126-933-11	ELECT	100μF	20%	16V	* CN511	1-564-509-11	PLUG,CONNECTOR		6P	
C555	1-126-933-11	ELECT	100μF	20%	16V	* CN514	1-766-240-11	PIN,CONNECTOR (PC BOARD)		2P	
C556	1-126-767-11	ELECT	1000μF	20%	16V	CN515	1-695-915-11	TAB (CONTACT)			
C558	1-162-966-11	CERAMIC CHIP	0.0022μF	10%	50V	CN516	1-695-915-11	TAB (CONTACT)			
C559	1-162-927-11	CERAMIC CHIP	100pF	5%	50V	CN517	1-695-915-11	TAB (CONTACT)			
C560	1-126-935-11	ELECT	470μF	20%	16V	CN518	1-695-915-11	TAB (CONTACT)			
C561	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	CN519	1-695-915-11	TAB (CONTACT)			
C562	1-126-964-11	ELECT	10μF	20%	50V	CN520	1-695-915-11	TAB (CONTACT)			
C563	1-126-947-11	ELECT	47μF	20%	25V	* CN521	1-564-511-11	PLUG,CONNECTOR	8P		
C564	1-162-966-11	CERAMIC CHIP	0.0022μF	10%	50V	* CN524	1-564-515-11	PLUG,CONNECTOR	12P		
C565	1-115-156-11	CERAMIC CHIP	1μF		10V	* CN526	1-564-508-11	PLUG,CONNECTOR	5P		
C566	1-162-961-11	CERAMIC CHIP	330pF	10%	50V	* CN527	1-564-511-61	PLUG,CONNECTOR	8P		
C567	1-165-176-11	CERAMIC CHIP	0.047μF	10%	16V	* CN528	1-564-507-11	PLUG,CONNECTOR	4P		
C569	1-126-767-11	ELECT	1000μF	20%	16V	* CN900	1-564-508-11	PLUG,CONNECTOR	5P		
C572	1-104-665-11	ELECT	100μF	20%	25V	* CN901	1-564-507-11	PLUG,CONNECTOR	4P		
C574	1-126-960-11	ELECT	1μF	20%	50V						

NOTE: The components identified by shading and  mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifiés par un trame et une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.



REF. NO.	PART NO.	DESCRIPTION	VALUES	REF. NO.	PART NO.	DESCRIPTION	VALUES
DIODE				IC508	6-702-490-01	IC TA8258H	
D503	8-719-511-40	DIODE S1VB20		IC901	8-759-450-47	IC BA05T	
D504	8-719-991-33	DIODE 1SS133T-77		CHIP CONDUCTOR			
D505	8-719-991-33	DIODE 1SS133T-77		JR501	1-216-864-11	SHORT CHIP	0
D508	8-719-991-33	DIODE 1SS133T-77		JR502	1-216-864-11	SHORT CHIP	0
D509	8-719-991-33	DIODE 1SS133T-77		JR503	1-216-864-11	SHORT CHIP	0
D510	8-719-991-33	DIODE 1SS133T-77		JR504	1-216-864-11	SHORT CHIP	0
D511	8-719-991-33	DIODE 1SS133T-77		JR505	1-216-864-11	SHORT CHIP	0
D515	8-719-991-33	DIODE 1SS133T-77		JR506	1-216-864-11	SHORT CHIP	0
D516	8-719-991-33	DIODE 1SS133T-77		JR509	1-216-864-11	SHORT CHIP	0
D517	8-719-991-33	DIODE 1SS133T-77		JR510	1-216-864-11	SHORT CHIP	0
D519	8-719-991-33	DIODE 1SS133T-77		JR512	1-216-864-11	SHORT CHIP	0
D520	8-719-991-33	DIODE 1SS133T-77		JR513	1-216-864-11	SHORT CHIP	0
D521	8-719-991-33	DIODE 1SS133T-77		JR514	1-216-864-11	SHORT CHIP	0
D522	8-719-991-33	DIODE 1SS133T-77		JR515	1-216-864-11	SHORT CHIP	0
D524	8-719-991-33	DIODE 1SS133T-77		JR516	1-216-864-11	SHORT CHIP	0
D526	8-719-991-33	DIODE 1SS133T-77		COIL			
D528	8-719-109-85	DIODE MTZJ-T-77-5.1B		L501	1-469-320-21	INDUCTOR	100μH
D529	8-719-991-33	DIODE 1SS133T-77		L502	1-412-525-31	INDUCTOR	10μH
D530	8-719-924-13	DIODE MTZJ-T-77-22B		L503	1-469-320-21	INDUCTOR	100μH
D531	8-719-924-13	DIODE MTZJ-T-77-22B		L504	1-469-317-21	INDUCTOR	10μH
D534	8-719-991-33	DIODE 1SS133T-77		L505	1-469-320-21	INDUCTOR	100μH
D535	8-719-991-33	DIODE 1SS133T-77		L506	1-469-320-21	INDUCTOR	100μH
D540	8-719-991-33	DIODE 1SS133T-77		L507	1-469-317-21	INDUCTOR	10μH
D541	8-719-991-33	DIODE 1SS133T-77		L508	1-412-529-11	INDUCTOR	22μH
D542	8-719-991-33	DIODE 1SS133T-77		 L510	1-437-479-11	TRANSFORMER, LINE FILTER	
D543	8-719-991-33	DIODE 1SS133T-77		 L511	1-437-479-11	TRANSFORMER, LINE FILTER	
D544	8-719-991-33	DIODE 1SS133T-77		IC LINK			
D545	8-719-991-33	DIODE 1SS133T-77		 PS502	1-532-984-11	LINK, IC 2A/90V	
D546	8-719-991-33	DIODE 1SS133T-77		TRANSISTOR			
D901	8-719-063-70	DIODE D1NL20U-TA2		Q503	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
FUSE				Q504	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
 F501	1-532-506-51	FUSE	6.3A/250V	Q505	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
FUSE HOLDER				Q506	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
FH501	1-533-223-11	HOLDER, FUSE		Q507	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
FH502	1-533-223-11	HOLDER, FUSE		Q509	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
IC				Q510	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
IC501	8-759-450-47	IC BA05T		Q511	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
IC502	8-759-520-49	IC PQ30RV21		Q512	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
IC504	6-700-898-01	IC PQ05RD21		Q513	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
IC505	8-759-653-07	IC PQ09RD21					

NOTE: The components identified by shading and  mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifiés par un trame et une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.



REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
Q514	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX				R543	1-216-825-11	RES-CHIP	2.2K	5%	1/10W
Q517	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX				R544	1-216-829-11	RES-CHIP	4.7K	5%	1/10W
Q518	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX				R545	1-216-805-11	RES-CHIP	47	5%	1/10W
Q519	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX				R546	1-216-805-11	RES-CHIP	47	5%	1/10W
Q520	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX				R547	1-216-827-11	RES-CHIP	3.3K	5%	1/10W
Q521	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX				R548	1-216-829-11	RES-CHIP	4.7K	5%	1/10W
Q524	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX				R550	1-216-845-11	RES-CHIP	100K	5%	1/10W
Q527	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX				R551	1-216-833-11	RES-CHIP	10K	5%	1/10W
Q528	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX				R552	1-216-837-11	RES-CHIP	22K	5%	1/10W
						R553	1-216-821-11	RES-CHIP	1K	5%	1/10W
		RESISTOR				R554	1-216-864-11	SHORT CHIP	0		
R501	1-216-864-11	SHORT CHIP	0			R555	1-216-833-11	RES-CHIP	10K	5%	1/10W
 R508	1-219-776-11	CARBON	2.2M	10%	1/2W	R556	1-216-839-11	RES-CHIP	33K	5%	1/10W
 R509	1-244-270-11	CEMENTED	0.47	5%	20W	R557	1-216-821-11	RES-CHIP	1K	5%	1/10W
 R510	1-244-270-11	CEMENTED	0.47	5%	20W	R558	1-216-857-11	RES-CHIP	1M	5%	1/10W
R511	1-216-849-11	RES-CHIP	220K	5%	1/10W						
R512	1-216-849-11	RES-CHIP	220K	5%	1/10W	R559	1-216-847-11	RES-CHIP	150K	5%	1/10W
R513	1-216-833-11	RES-CHIP	10K	5%	1/10W	R560	1-216-825-11	RES-CHIP	2.2K	5%	1/10W
R515	1-216-833-11	RES-CHIP	10K	5%	1/10W	R561	1-216-833-11	RES-CHIP	10K	5%	1/10W
R516	1-216-857-11	RES-CHIP	1M	5%	1/10W	R562	1-216-829-11	RES-CHIP	4.7K	5%	1/10W
R517	1-216-805-11	RES-CHIP	47	5%	1/10W	R563	1-216-823-11	RES-CHIP	1.5K	5%	1/10W
R518	1-216-805-11	RES-CHIP	47	5%	1/10W						
R519	1-216-839-11	RES-CHIP	33K	5%	1/10W	R564	1-216-847-11	RES-CHIP	150K	5%	1/10W
R520	1-216-837-11	RES-CHIP	22K	5%	1/10W	R565	1-216-821-11	RES-CHIP	1K	5%	1/10W
R521	1-216-825-11	RES-CHIP	2.2K	5%	1/10W	R570	1-216-833-11	RES-CHIP	10K	5%	1/10W
R522	1-216-829-11	RES-CHIP	4.7K	5%	1/10W	R571	1-216-829-11	RES-CHIP	4.7K	5%	1/10W
R523	1-216-837-11	RES-CHIP	22K	5%	1/10W	R572	1-216-809-11	RES-CHIP	100	5%	1/10W
R524	1-216-833-11	RES-CHIP	10K	5%	1/10W						
R525	1-216-833-11	RES-CHIP	10K	5%	1/10W	R573	1-216-847-11	RES-CHIP	150K	5%	1/10W
R526	1-216-837-11	RES-CHIP	22K	5%	1/10W	R574	1-216-809-11	RES-CHIP	100	5%	1/10W
R527	1-216-343-00	METAL OXIDE	0.33	5%	1W	R577	1-216-821-11	RES-CHIP	1K	5%	1/10W
R528	1-216-833-11	RES-CHIP	10K	5%	1/10W	R579	1-216-821-11	RES-CHIP	1K	5%	1/10W
R529	1-216-857-11	RES-CHIP	1M	5%	1/10W	R581	1-216-864-11	SHORT CHIP	0		
R530	1-216-847-11	RES-CHIP	150K	5%	1/10W						
R531	1-216-821-11	RES-CHIP	1K	5%	1/10W	R582	1-216-864-11	SHORT CHIP	0		
R532	1-216-825-11	RES-CHIP	2.2K	5%	1/10W	R585	1-216-825-11	RES-CHIP	2.2K	5%	1/10W
R533	1-216-833-11	RES-CHIP	10K	5%	1/10W	R586	1-216-825-11	RES-CHIP	2.2K	5%	1/10W
R534	1-218-716-11	METAL CHIP	10K	0.50%	1/16W	R588	1-216-833-11	RES-CHIP	10K	5%	1/10W
R535	1-218-722-11	METAL CHIP	18K	0.50%	1/16W	R589	1-216-833-11	RES-CHIP	10K	5%	1/10W
R537	1-218-750-11	METAL CHIP	270K	0.50%	1/16W						
R538	1-216-823-11	RES-CHIP	1.5K	5%	1/10W	R591	1-216-821-11	RES-CHIP	1K	5%	1/10W
R540	1-216-821-11	RES-CHIP	1K	5%	1/10W	R593	1-216-829-11	RES-CHIP	4.7K	5%	1/10W
R541	1-216-833-11	RES-CHIP	10K	5%	1/10W	R595	1-216-821-11	RES-CHIP	1K	5%	1/10W
R542	1-216-821-11	RES-CHIP	1K	5%	1/10W	R596	1-216-833-11	RES-CHIP	10K	5%	1/10W
						R598	1-216-833-11	RES-CHIP	10K	5%	1/10W
						R599	1-216-825-11	RES-CHIP	2.2K	5%	1/10W
						R601	1-216-821-11	RES-CHIP	1K	5%	1/10W
						R602	1-216-833-11	RES-CHIP	10K	5%	1/10W
						R603	1-216-829-11	RES-CHIP	4.7K	5%	1/10W

NOTE: The components identified by shading and  mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifiés par un trame et une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.



REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
R605	1-216-829-11	RES-CHIP	4.7K	5%	1/10W	C2807	1-125-837-91	CERAMIC CHIP	1μF	10%	6.3V
R606	1-216-833-11	RES-CHIP	10K	5%	1/10W	C2808	1-126-601-11	ELECT CHIP	2.2μF	20%	50V
R607	1-216-833-11	RES-CHIP	10K	5%	1/10W	C2809	1-117-681-11	ELECT CHIP	100μF	20%	16V
R610	1-216-821-11	RES-CHIP	1K	5%	1/10W	C2810	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
R611	1-216-833-11	RES-CHIP	10K	5%	1/10W	C2811	1-164-156-11	CERAMIC CHIP	0.1μF		25V
R617	1-249-385-11	CARBON	2.2	5%	1/4W	C2812	1-125-891-11	CERAMIC CHIP	0.47μF	10%	10V
R622	1-249-385-11	CARBON	2.2	5%	1/4W	C2813	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
R631	1-249-429-11	CARBON	10K	5%	1/4W	C2814	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
R632	1-249-429-11	CARBON	10K	5%	1/4W	C2815	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
R634	1-216-837-11	RES-CHIP	22K	5%	1/10W	C2816	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
R635	1-216-833-11	RES-CHIP	10K	5%	1/10W	C2817	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
R636	1-216-833-11	RES-CHIP	10K	5%	1/10W	C2818	1-162-964-11	CERAMIC CHIP	0.001μF	10%	50V
R643	1-216-864-11	SHORT CHIP	0			C2819	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
R645	1-216-864-11	SHORT CHIP	0			C2820	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
R647	1-216-833-11	RES-CHIP	10K	5%	1/10W	C2821	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
R904	1-216-393-00	METAL OXIDE	2.2	5%	3W	C2822	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
TRANSFORMER						C2823	1-117-681-11	ELECT CHIP	100μF	20%	16V
 T502	1-437-697-11	TRANSFORMER, STANDBY				C2824	1-117-681-11	ELECT CHIP	100μF	20%	16V
TUNER						C2825	1-162-964-11	CERAMIC CHIP	0.001μF	10%	50V
TU501	8-598-594-30	TUNER, FSS BTF-FA421				C2826	1-164-156-11	CERAMIC CHIP	0.1μF		25V
TU502	8-598-593-50	TUNER, FSS BTF-WA421				C2827	1-164-156-11	CERAMIC CHIP	0.1μF		25V
VARISTOR						C2828	1-110-563-11	CERAMIC CHIP	0.068μF	10%	16V
 VD501	1-801-074-11	VARISTOR ERZV10D271				C2829	1-162-968-11	CERAMIC CHIP	0.0047μF	10%	50V
B						C2830	1-128-996-11	ELECT CHIP	4.7μF	20%	50V
The B board is not field repairable. If service is required, use the following part number to order a complete replacement board. Data is provided for reference only.						C2831	1-117-681-11	ELECT CHIP	100μF	20%	16V
*	A-1300-407-A	B BOARD, COMPLETE				C2833	1-127-715-91	CERAMIC CHIP	0.22μF	10%	16V
	4-034-937-01	SCREW (M3), TAPPING				C2834	1-125-891-11	CERAMIC CHIP	0.47μF	10%	10V
*	4-088-898-01	CARTON				C2835	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
*	7-322-065-48	RUBBER, SILICONE RTV (KE-3490)				C2836	1-164-156-11	CERAMIC CHIP	0.1μF		25V
CAPACITOR						C2837	1-117-681-11	ELECT CHIP	100μF	20%	16V
C2801	1-117-681-11	ELECT CHIP	100μF	20%	16V	C2840	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C2802	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C2841	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C2804	1-162-923-11	CERAMIC CHIP	47pF	5%	50V	C2842	1-117-681-11	ELECT CHIP	100μF	20%	16V
C2805	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C2843	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C2806	1-125-891-11	CERAMIC CHIP	0.47μF	10%	10V	C2844	1-117-681-11	ELECT CHIP	100μF	20%	16V
						C2845	1-117-681-11	ELECT CHIP	100μF	20%	16V
						C2846	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
						C2847	1-127-715-91	CERAMIC CHIP	0.22μF	10%	16V
						C2849	1-162-966-11	CERAMIC CHIP	0.0022μF	10%	50V
						C2850	1-117-681-11	ELECT CHIP	100μF	20%	16V
						C2851	1-164-156-11	CERAMIC CHIP	0.1μF		25V
						C2859	1-164-156-11	CERAMIC CHIP	0.1μF		25V
						C2860	1-126-206-11	ELECT CHIP	100μF	20%	6.3V
						C2861	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V



REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
C3004	1-126-206-11	ELECT CHIP	100μF	20%	6.3V	C3096	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C3005	1-126-204-11	ELECT CHIP	47μF	20%	16V	C3097	1-128-359-11	ELECT CHIP	100μF	20%	10V
C3006	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C3098	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C3008	1-126-204-11	ELECT CHIP	47μF	20%	16V	C3101	1-162-925-11	CERAMIC CHIP	68pF	5%	50V
C3009	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C3102	1-162-925-11	CERAMIC CHIP	68pF	5%	50V
C3011	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3103	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C3012	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3301	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3013	1-128-391-11	ELECT CHIP	330μF	20%	6.3V	C3302	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3014	1-128-391-11	ELECT CHIP	330μF	20%	6.3V	C3303	1-126-206-11	ELECT CHIP	100μF	20%	6.3V
C3015	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3304	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3016	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3305	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3017	1-125-837-91	CERAMIC CHIP	1μF	10%	6.3V	C3307	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3018	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3308	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3019	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3309	1-126-206-11	ELECT CHIP	100μF	20%	6.3V
C3020	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	C3313	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3021	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3314	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3023	1-125-837-91	CERAMIC CHIP	1μF	10%	6.3V	C3315	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3024	1-125-837-91	CERAMIC CHIP	1μF	10%	6.3V	C3316	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3025	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3317	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3026	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3318	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3027	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3319	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3028	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3325	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3029	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3326	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3030	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3329	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C3031	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3333	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3032	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3334	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C3033	1-109-982-11	CERAMIC CHIP	1μF	10%	10V	C3335	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3034	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C3337	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C3035	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C3341	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3036	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	C3343	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3037	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	C3349	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3038	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C3350	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3039	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3351	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3040	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	C3357	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3041	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3358	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3042	1-128-391-11	ELECT CHIP	330μF	20%	6.3V	C3359	1-126-204-11	ELECT CHIP	47μF	20%	16V
C3044	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3360	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3046	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C3363	1-126-204-11	ELECT CHIP	47μF	20%	16V
C3047	1-126-204-11	ELECT CHIP	47μF	20%	16V	C3364	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3048	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C3365	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3049	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	C3366	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3089	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C3367	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3090	1-126-204-11	ELECT CHIP	47μF	20%	16V	C3368	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3095	1-128-391-11	ELECT CHIP	330μF	20%	6.3V	C3369	1-164-156-11	CERAMIC CHIP	0.1μF		25V



REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
C3370	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3465	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3371	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3466	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3372	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3467	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3374	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3468	1-126-206-11	ELECT CHIP	100μF	20%	6.3V
C3375	1-127-760-11	CERAMIC CHIP	4.7μF	10%	6.3V	C3469	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3376	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3470	1-126-206-11	ELECT CHIP	100μF	20%	6.3V
C3377	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C3473	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3378	1-126-204-11	ELECT CHIP	47μF	20%	16V	C3474	1-124-779-00	ELECT CHIP	10μF	20%	16V
C3379	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3475	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3401	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3476	1-124-779-00	ELECT CHIP	10μF	20%	16V
C3402	1-126-394-11	ELECT CHIP	10μF	20%	16V	C3477	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3403	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3478	1-126-204-11	ELECT CHIP	47μF	20%	16V
C3404	1-126-206-11	ELECT CHIP	100μF	20%	6.3V	C3479	1-124-779-00	ELECT CHIP	10μF	20%	16V
C3405	1-126-206-11	ELECT CHIP	100μF	20%	6.3V	C3480	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3406	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	C3481	1-117-681-11	ELECT CHIP	100μF	20%	16V
C3407	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	C3482	1-117-681-11	ELECT CHIP	100μF	20%	16V
C3408	1-126-206-11	ELECT CHIP	100μF	20%	6.3V	C3483	1-117-681-11	ELECT CHIP	100μF	20%	16V
C3409	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3484	1-125-837-91	CERAMIC CHIP	1μF	10%	6.3V
C3410	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3485	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3411	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3486	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3412	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3487	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3413	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3488	1-124-779-00	ELECT CHIP	10μF	20%	16V
C3414	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3489	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3417	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3490	1-124-779-00	ELECT CHIP	10μF	20%	16V
C3418	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	C3491	1-126-204-11	ELECT CHIP	47μF	20%	16V
C3424	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3492	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3426	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3493	1-126-204-11	ELECT CHIP	47μF	20%	16V
C3428	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	C3494	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3431	1-126-204-11	ELECT CHIP	47μF	20%	16V	C3495	1-124-779-00	ELECT CHIP	10μF	20%	16V
C3435	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3496	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3436	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	C3499	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C3439	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3500	1-117-681-11	ELECT CHIP	100μF	20%	16V
C3440	1-162-916-11	CERAMIC CHIP	12pF	5%	50V	C3501	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3441	1-162-916-11	CERAMIC CHIP	12pF	5%	50V	C3601	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3442	1-124-779-00	ELECT CHIP	10μF	20%	16V	C3602	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3444	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3604	1-124-779-00	ELECT CHIP	10μF	20%	16V
C3446	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	C3605	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C3449	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	C3606	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3450	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3607	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C3452	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3608	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3460	1-162-923-11	CERAMIC CHIP	47pF	5%	50V	C3610	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3462	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3611	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3463	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3613	1-126-206-11	ELECT CHIP	100μF	20%	6.3V
C3464	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3614	1-164-156-11	CERAMIC CHIP	0.1μF		25V



REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
C3615	1-124-779-00	ELECT CHIP	10μF	20%	16V	C8639	1-126-204-11	ELECT CHIP	47μF	20%	16V
C3617	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C8640	1-117-370-11	CERAMIC CHIP	10μF		10V
C3618	1-127-760-11	CERAMIC CHIP	4.7μF	10%	6.3V	C8641	1-117-370-11	CERAMIC CHIP	10μF		10V
C3619	1-126-206-11	ELECT CHIP	100μF	20%	6.3V	C8642	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3620	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	C8643	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3622	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C8644	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3623	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C8645	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3624	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C8646	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3626	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C8647	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3627	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C8648	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3628	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C8649	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3629	1-126-394-11	ELECT CHIP	10μF	20%	16V	C8650	1-126-204-11	ELECT CHIP	47μF	20%	16V
C3630	1-126-394-11	ELECT CHIP	10μF	20%	16V	C8651	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3906	1-126-204-11	ELECT CHIP	47μF	20%	16V	C8652	1-128-994-21	ELECT CHIP	47μF	20%	10V
C3912	1-126-206-11	ELECT CHIP	100μF	20%	6.3V	C8653	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C8601	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C8654	1-126-206-11	ELECT CHIP	100μF	20%	6.3V
C8602	1-127-692-11	CERAMIC CHIP	10μF	10%	6.3V	C8655	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C8603	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C8656	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C8604	1-127-692-11	CERAMIC CHIP	10μF	10%	6.3V	C8657	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C8605	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	CONNECTOR					
C8606	1-127-692-11	CERAMIC CHIP	10μF	10%	6.3V	* CN2801	1-564-506-11	PLUG,CONNECTOR		3P	
C8607	1-164-156-11	CERAMIC CHIP	0.1μF		25V	* CN2802	1-564-506-11	PLUG,CONNECTOR		3P	
C8608	1-128-934-91	CERAMIC CHIP	0.33μF	20%	10V	* CN2803	1-564-508-11	PLUG,CONNECTOR		5P	
C8609	1-162-967-11	CERAMIC CHIP	0.0033μF	10%	50V	CN2805	1-764-334-11	PLUG,CONNECTOR		11P	
C8610	1-162-927-11	CERAMIC CHIP	100pF	5%	50V	* CN2806	1-564-510-11	PLUG,CONNECTOR		7P	
C8611	1-162-927-11	CERAMIC CHIP	100pF	5%	50V	* CN3602	1-793-141-21	PIN,CONNECTOR (PC BOARD)		15P	
C8612	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	* CN3603	1-815-177-12	PIN,CONNECTOR (WITH SHIELD)		22P	
C8613	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	DIODE					
C8615	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	D2803	8-719-404-50	DIODE MA111-TX			
C8617	1-164-156-11	CERAMIC CHIP	0.1μF		25V	D2806	8-719-069-55	DIODE UDZSTE-175.6B			
C8621	1-164-156-11	CERAMIC CHIP	0.1μF		25V	D2807	8-719-404-50	DIODE MA111-TX			
C8622	1-164-156-11	CERAMIC CHIP	0.1μF		25V	D3001	8-719-404-50	DIODE MA111-TX			
C8623	1-164-156-11	CERAMIC CHIP	0.1μF		25V	D3002	8-719-083-58	DIODE UDZSTE-173.9B			
C8624	1-164-156-11	CERAMIC CHIP	0.1μF		25V	D3089	8-719-800-76	DIODE MA153-TX			
C8625	1-164-156-11	CERAMIC CHIP	0.1μF		25V	D3090	8-719-800-76	DIODE MA153-TX			
C8630	1-164-156-11	CERAMIC CHIP	0.1μF		25V	D3309	8-719-914-43	DIODE DAN202K-T-146			
C8631	1-164-156-11	CERAMIC CHIP	0.1μF		25V	D3310	8-719-914-44	DIODE DAP202K-T-146			
C8632	1-164-156-11	CERAMIC CHIP	0.1μF		25V	D3401	8-719-914-43	DIODE DAN202K-T-146			
C8633	1-164-156-11	CERAMIC CHIP	0.1μF		25V	D3402	8-719-914-44	DIODE DAP202K-T-146			
C8634	1-125-837-91	CERAMIC CHIP	1μF	10%	6.3V	D3403	8-719-978-33	DIODE UDZSTE-176.8B			
C8635	1-125-837-91	CERAMIC CHIP	1μF	10%	6.3V						
C8636	1-164-156-11	CERAMIC CHIP	0.1μF		25V						
C8637	1-164-156-11	CERAMIC CHIP	0.1μF		25V						
C8638	1-128-994-21	ELECT CHIP	47μF	20%	10V						

NOTE: Les composants identifiés per un trame et une marque sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

— 128 —



REF. NO.	PART NO.	DESCRIPTION	VALUES	REF. NO.	PART NO.	DESCRIPTION	VALUES
L3011	1-469-555-21	INDUCTOR	10μH	Q2822	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
L3089	1-414-233-22	FERRITE	0μH	Q2823	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
L3102	1-469-552-21	INDUCTOR	3.3μH	Q3003	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
L3304	1-469-555-21	INDUCTOR	10μH	Q3005	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
L3310	1-469-561-21	INDUCTOR	100μH	Q3006	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
L3311	1-469-561-21	INDUCTOR	100μH	Q3007	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
L3402	1-412-052-21	INDUCTOR	1μH	Q3008	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
L3405	1-469-555-21	INDUCTOR	10μH	Q3009	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
L3406	1-469-555-21	INDUCTOR	10μH	Q3089	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
L3407	1-469-555-21	INDUCTOR	10μH	Q3090	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
L3411	1-412-058-11	INDUCTOR	10μH	Q3092	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
L3412	1-469-555-21	INDUCTOR	10μH	Q3093	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
L3413	1-469-555-21	INDUCTOR	10μH	Q3302	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
L3414	1-469-555-21	INDUCTOR	10μH	Q3303	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
L3416	1-469-555-21	INDUCTOR	10μH	Q3305	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
L3418	1-469-555-21	INDUCTOR	10μH	Q3306	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
L3601	1-419-370-21	INDUCTOR	0μH	Q3307	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
L3602	1-419-370-21	INDUCTOR	0μH	Q3308	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
L3603	1-419-370-21	INDUCTOR	0μH	Q3309	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
L3604	1-419-370-21	INDUCTOR	0μH	Q3310	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
L3605	1-419-370-21	INDUCTOR	0μH	Q3311	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
L3903	1-412-052-21	INDUCTOR	1μH	Q3401	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
L8601	1-469-555-21	INDUCTOR	10μH	Q3402	8-729-028-28	TRANSISTOR 2SK2036(TE85L)	
L8602	1-469-553-21	INDUCTOR	4.7μH	Q3404	8-729-028-28	TRANSISTOR 2SK2036(TE85L)	
L8603	1-469-555-21	INDUCTOR	10μH	Q3410	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
L8604	1-469-555-21	INDUCTOR	10μH	Q3411	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
TRANSISTOR				Q3412	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
Q2801	8-729-122-63	TRANSISTOR 2SA1226-T1E4		Q3413	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
Q2802	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX		Q3414	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
Q2803	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX		Q3415	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
Q2804	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		Q3416	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q2805	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX		Q3601	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q2806	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		Q3906	8-729-028-28	TRANSISTOR 2SK2036(TE85L)	
Q2807	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		Q3907	8-729-028-28	TRANSISTOR 2SK2036(TE85L)	
Q2810	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX		Q8601	8-729-102-07	TRANSISTOR 2SC2223-T1F13F14	
Q2811	8-729-122-63	TRANSISTOR 2SA1226-T1E4		Q8602	8-729-102-07	TRANSISTOR 2SC2223-T1F13F14	
Q2812	8-729-122-63	TRANSISTOR 2SA1226-T1E4		Q8603	8-729-102-07	TRANSISTOR 2SC2223-T1F13F14	
Q2813	8-729-122-63	TRANSISTOR 2SA1226-T1E4		Q8604	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
Q2814	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		Q8605	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
Q2815	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		Q8606	8-729-122-63	TRANSISTOR 2SA1226-T1E4	
Q2816	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		Q8607	8-729-122-63	TRANSISTOR 2SA1226-T1E4	
Q2817	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		Q8608	8-729-122-63	TRANSISTOR 2SA1226-T1E4	
				Q8609	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	



REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
<u>RESISTOR</u>						R2846	1-216-827-11	RES-CHIP	3.3K	5%	1/10W
R2801	1-218-867-11	RES-CHIP	6.8K	5%	1/10W	R2847	1-216-809-11	RES-CHIP	100	5%	1/10W
R2803	1-216-829-11	RES-CHIP	4.7K	5%	1/10W	R2848	1-216-825-11	RES-CHIP	2.2K	5%	1/10W
R2804	1-216-805-11	RES-CHIP	47	5%	1/10W	R2849	1-216-833-11	RES-CHIP	10K	5%	1/10W
R2805	1-216-822-11	RES-CHIP	1.2K	5%	1/10W	R2850	1-216-809-11	RES-CHIP	100	5%	1/10W
R2806	1-216-863-11	RES-CHIP	3.3M	5%	1/10W	R2851	1-216-815-11	RES-CHIP	330	5%	1/10W
R2807	1-216-809-11	RES-CHIP	100	5%	1/10W	R2854	1-216-864-11	SHORT CHIP	0		
R2808	1-216-826-11	RES-CHIP	2.7K	5%	1/10W	R2858	1-218-716-11	METAL CHIP	10K	0.50%	1/16W
R2809	1-216-829-11	RES-CHIP	4.7K	5%	1/10W	R2860	1-216-833-11	RES-CHIP	10K	5%	1/10W
R2810	1-216-829-11	RES-CHIP	4.7K	5%	1/10W	R2861	1-216-833-11	RES-CHIP	10K	5%	1/10W
R2811	1-216-809-11	RES-CHIP	100	5%	1/10W	R2862	1-216-809-11	RES-CHIP	100	5%	1/10W
R2812	1-218-708-11	METAL CHIP	4.7K	0.50%	1/16W	R2863	1-216-823-11	RES-CHIP	1.5K	5%	1/10W
R2813	1-216-829-11	RES-CHIP	4.7K	5%	1/10W	R2864	1-216-825-11	RES-CHIP	2.2K	5%	1/10W
R2814	1-216-829-11	RES-CHIP	4.7K	5%	1/10W	R2865	1-216-825-11	RES-CHIP	2.2K	5%	1/10W
R2816	1-216-845-11	RES-CHIP	100K	5%	1/10W	R2866	1-216-825-11	RES-CHIP	2.2K	5%	1/10W
R2817	1-216-809-11	RES-CHIP	100	5%	1/10W	R2867	1-216-825-11	RES-CHIP	2.2K	5%	1/10W
R2818	1-216-809-11	RES-CHIP	100	5%	1/10W	R2868	1-216-809-11	RES-CHIP	100	5%	1/10W
R2819	1-216-809-11	RES-CHIP	100	5%	1/10W	R2869	1-216-809-11	RES-CHIP	100	5%	1/10W
R2820	1-216-809-11	RES-CHIP	100	5%	1/10W	R2870	1-216-809-11	RES-CHIP	100	5%	1/10W
R2821	1-216-809-11	RES-CHIP	100	5%	1/10W	R2871	1-216-821-11	RES-CHIP	1K	5%	1/10W
R2823	1-216-841-11	RES-CHIP	47K	5%	1/10W	R2872	1-216-821-11	RES-CHIP	1K	5%	1/10W
R2824	1-216-809-11	RES-CHIP	100	5%	1/10W	R2873	1-216-821-11	RES-CHIP	1K	5%	1/10W
R2825	1-216-841-11	RES-CHIP	47K	5%	1/10W	R2874	1-216-864-11	SHORT CHIP	0		
R2826	1-218-716-11	METAL CHIP	10K	0.50%	1/16W	R2875	1-216-864-11	SHORT CHIP	0		
R2827	1-216-829-11	RES-CHIP	4.7K	5%	1/10W	R2876	1-216-864-11	SHORT CHIP	0		
R2828	1-216-832-11	RES-CHIP	8.2K	5%	1/10W	R2878	1-216-821-11	RES-CHIP	1K	5%	1/10W
R2829	1-216-825-11	RES-CHIP	2.2K	5%	1/10W	R2879	1-216-853-11	RES-CHIP	470K	5%	1/10W
R2830	1-216-818-11	RES-CHIP	560	5%	1/10W	R2880	1-216-822-11	RES-CHIP	1.2K	5%	1/10W
R2831	1-216-825-11	RES-CHIP	2.2K	5%	1/10W	R2881	1-216-822-11	RES-CHIP	1.2K	5%	1/10W
R2832	1-216-809-11	RES-CHIP	100	5%	1/10W	R2882	1-216-822-11	RES-CHIP	1.2K	5%	1/10W
R2833	1-216-809-11	RES-CHIP	100	5%	1/10W	R2883	1-216-825-11	RES-CHIP	2.2K	5%	1/10W
R2834	1-216-809-11	RES-CHIP	100	5%	1/10W	R2884	1-216-825-11	RES-CHIP	2.2K	5%	1/10W
R2835	1-216-809-11	RES-CHIP	100	5%	1/10W	R2885	1-216-825-11	RES-CHIP	2.2K	5%	1/10W
R2836	1-216-809-11	RES-CHIP	100	5%	1/10W	R2886	1-216-825-11	RES-CHIP	2.2K	5%	1/10W
R2837	1-216-809-11	RES-CHIP	100	5%	1/10W	R2887	1-216-825-11	RES-CHIP	2.2K	5%	1/10W
R2838	1-216-809-11	RES-CHIP	100	5%	1/10W	R2889	1-216-825-11	RES-CHIP	2.2K	5%	1/10W
R2839	1-216-809-11	RES-CHIP	100	5%	1/10W	R2890	1-216-825-11	RES-CHIP	2.2K	5%	1/10W
R2840	1-216-809-11	RES-CHIP	100	5%	1/10W	R2891	1-216-825-11	RES-CHIP	2.2K	5%	1/10W
R2841	1-216-809-11	RES-CHIP	100	5%	1/10W	R2892	1-216-825-11	RES-CHIP	2.2K	5%	1/10W
R2842	1-216-809-11	RES-CHIP	100	5%	1/10W	R2893	1-216-825-11	RES-CHIP	2.2K	5%	1/10W
R2843	1-216-809-11	RES-CHIP	100	5%	1/10W	R2894	1-216-825-11	RES-CHIP	2.2K	5%	1/10W
R2844	1-216-826-11	RES-CHIP	2.7K	5%	1/10W	R2895	1-216-825-11	RES-CHIP	2.2K	5%	1/10W
R2845	1-216-809-11	RES-CHIP	100	5%	1/10W	R2896	1-216-825-11	RES-CHIP	2.2K	5%	1/10W
						R2897	1-216-825-11	RES-CHIP	2.2K	5%	1/10W



REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
R2898	1-216-825-11	RES-CHIP	2.2K	5%	1/10W	R3066	1-216-809-11	RES-CHIP	100	5%	1/10W
R2900	1-216-829-11	RES-CHIP	4.7K	5%	1/10W	R3068	1-216-825-11	RES-CHIP	2.2K	5%	1/10W
R2901	1-216-829-11	RES-CHIP	4.7K	5%	1/10W	R3069	1-216-820-11	RES-CHIP	820	5%	1/10W
R2902	1-216-829-11	RES-CHIP	4.7K	5%	1/10W	R3070	1-216-864-11	SHORT CHIP	0		
R2905	1-216-864-11	SHORT CHIP	0			R3071	1-216-821-11	RES-CHIP	1K	5%	1/10W
R2907	1-216-803-11	RES-CHIP	33	5%	1/10W	R3072	1-216-855-11	RES-CHIP	680K	5%	1/10W
R2908	1-216-803-11	RES-CHIP	33	5%	1/10W	R3073	1-216-855-11	RES-CHIP	680K	5%	1/10W
R2909	1-216-803-11	RES-CHIP	33	5%	1/10W	R3074	1-218-704-11	METAL CHIP	3.3K	0.50%	1/16W
R2910	1-216-864-11	SHORT CHIP	0			R3075	1-216-801-11	RES-CHIP	22	5%	1/10W
R2913	1-216-864-11	SHORT CHIP	0			R3076	1-216-864-11	SHORT CHIP	0		
R2920	1-216-864-11	SHORT CHIP	0			R3077	1-216-841-11	RES-CHIP	47K	5%	1/10W
R2922	1-216-864-11	SHORT CHIP	0			R3078	1-216-815-11	RES-CHIP	330	5%	1/10W
R2923	1-218-708-11	METAL CHIP	4.7K	0.50%	1/16W	R3079	1-216-815-11	RES-CHIP	330	5%	1/10W
R2924	1-218-708-11	METAL CHIP	4.7K	0.50%	1/16W	R3089	1-216-864-11	SHORT CHIP	0		
R2925	1-218-708-11	METAL CHIP	4.7K	0.50%	1/16W	R3091	1-216-825-11	RES-CHIP	2.2K	5%	1/10W
R3002	1-216-864-11	SHORT CHIP	0			R3092	1-216-825-11	RES-CHIP	2.2K	5%	1/10W
R3004	1-216-864-11	SHORT CHIP	0			R3093	1-216-864-11	SHORT CHIP	0		
R3005	1-216-864-11	SHORT CHIP	0			R3095	1-216-845-11	RES-CHIP	100K	5%	1/10W
R3013	1-216-809-11	RES-CHIP	100	5%	1/10W	R3096	1-216-817-11	RES-CHIP	470	5%	1/10W
R3014	1-216-809-11	RES-CHIP	100	5%	1/10W	R3097	1-216-845-11	RES-CHIP	100K	5%	1/10W
R3015	1-216-809-11	RES-CHIP	100	5%	1/10W	R3098	1-216-805-11	RES-CHIP	47	5%	1/10W
R3017	1-216-825-11	RES-CHIP	2.2K	5%	1/10W	R3099	1-216-805-11	RES-CHIP	47	5%	1/10W
R3020	1-216-827-11	RES-CHIP	3.3K	5%	1/10W	R3102	1-216-809-11	RES-CHIP	100	5%	1/10W
R3021	1-216-809-11	RES-CHIP	100	5%	1/10W	R3103	1-216-809-11	RES-CHIP	100	5%	1/10W
R3022	1-216-809-11	RES-CHIP	100	5%	1/10W	R3104	1-216-809-11	RES-CHIP	100	5%	1/10W
R3023	1-216-833-11	RES-CHIP	10K	5%	1/10W	R3105	1-216-809-11	RES-CHIP	100	5%	1/10W
R3025	1-216-833-11	RES-CHIP	10K	5%	1/10W	R3107	1-216-864-11	SHORT CHIP	0		
R3026	1-216-833-11	RES-CHIP	10K	5%	1/10W	R3108	1-216-833-11	RES-CHIP	10K	5%	1/10W
R3029	1-216-833-11	RES-CHIP	10K	5%	1/10W	R3110	1-216-809-11	RES-CHIP	100	5%	1/10W
R3030	1-216-827-11	RES-CHIP	3.3K	5%	1/10W	R3111	1-216-809-11	RES-CHIP	100	5%	1/10W
R3031	1-216-809-11	RES-CHIP	100	5%	1/10W	R3116	1-216-797-11	RES-CHIP	10	5%	1/10W
R3035	1-216-809-11	RES-CHIP	100	5%	1/10W	R3117	1-216-797-11	RES-CHIP	10	5%	1/10W
R3036	1-216-809-11	RES-CHIP	100	5%	1/10W	R3150	1-216-864-11	SHORT CHIP	0		
R3037	1-216-809-11	RES-CHIP	100	5%	1/10W	R3302	1-216-817-11	RES-CHIP	470	5%	1/10W
R3038	1-218-686-11	METAL CHIP	560	0.50%	1/16W	R3303	1-218-710-11	METAL CHIP	5.6K	0.50%	1/16W
R3039	1-218-686-11	METAL CHIP	560	0.50%	1/16W	R3304	1-216-809-11	RES-CHIP	100	5%	1/10W
R3040	1-218-686-11	METAL CHIP	560	0.50%	1/16W	R3325	1-216-864-11	SHORT CHIP	0		
R3045	1-216-809-11	RES-CHIP	100	5%	1/10W	R3335	1-216-833-11	RES-CHIP	10K	5%	1/10W
R3047	1-216-864-11	SHORT CHIP	0			R3341	1-216-813-11	RES-CHIP	220	5%	1/10W
R3049	1-216-859-11	RES-CHIP	1.5M	5%	1/10W	R3342	1-218-705-11	METAL CHIP	3.6K	0.50%	1/16W
R3050	1-216-833-11	RES-CHIP	10K	5%	1/10W	R3343	1-216-809-11	RES-CHIP	100	5%	1/10W
R3051	1-216-864-11	SHORT CHIP	0			R3344	1-216-853-11	RES-CHIP	470K	5%	1/10W
R3063	1-216-864-11	SHORT CHIP	0			R3345	1-218-704-11	METAL CHIP	3.3K	0.50%	1/16W
R3064	1-216-864-11	SHORT CHIP	0			R3346	1-216-809-11	RES-CHIP	100	5%	1/10W



REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
R3347	1-216-815-11	RES-CHIP	330	5%	1/10W	R3437	1-216-809-11	RES-CHIP	100	5%	1/10W
R3348	1-216-864-11	SHORT CHIP	0			R3438	1-216-809-11	RES-CHIP	100	5%	1/10W
R3349	1-218-687-11	METAL CHIP	620	0.50%	1/16W	R3439	1-216-809-11	RES-CHIP	100	5%	1/10W
R3350	1-216-814-11	RES-CHIP	270	5%	1/10W	R3440	1-216-809-11	RES-CHIP	100	5%	1/10W
R3351	1-216-825-11	RES-CHIP	2.2K	5%	1/10W	R3441	1-216-809-11	RES-CHIP	100	5%	1/10W
R3352	1-216-853-11	RES-CHIP	470K	5%	1/10W	R3442	1-216-833-11	RES-CHIP	10K	5%	1/10W
R3353	1-216-837-11	RES-CHIP	22K	5%	1/10W	R3445	1-216-864-11	SHORT CHIP	0		
R3354	1-216-813-11	RES-CHIP	220	5%	1/10W	R3451	1-216-809-11	RES-CHIP	100	5%	1/10W
R3355	1-216-821-11	RES-CHIP	1K	5%	1/10W	R3452	1-216-864-11	SHORT CHIP	0		
R3357	1-218-676-11	METAL CHIP	220	0.50%	1/16W	R3454	1-216-825-11	RES-CHIP	2.2K	5%	1/10W
R3358	1-218-676-11	METAL CHIP	220	0.50%	1/16W	R3457	1-216-813-11	RES-CHIP	220	5%	1/10W
R3359	1-218-676-11	METAL CHIP	220	0.50%	1/16W	R3460	1-216-833-11	RES-CHIP	10K	5%	1/10W
R3360	1-216-827-11	RES-CHIP	3.3K	5%	1/10W	R3461	1-216-833-11	RES-CHIP	10K	5%	1/10W
R3365	1-216-827-11	RES-CHIP	3.3K	5%	1/10W	R3466	1-216-813-11	RES-CHIP	220	5%	1/10W
R3367	1-216-805-11	RES-CHIP	47	5%	1/10W	R3468	1-216-864-11	SHORT CHIP	0		
R3368	1-216-864-11	SHORT CHIP	0			R3469	1-216-864-11	SHORT CHIP	0		
R3370	1-216-833-11	RES-CHIP	10K	5%	1/10W	R3470	1-216-809-11	RES-CHIP	100	5%	1/10W
R3371	1-218-686-11	METAL CHIP	560	0.50%	1/16W	R3473	1-216-864-11	SHORT CHIP	0		
R3372	1-216-817-11	RES-CHIP	470	5%	1/10W	R3475	1-216-809-11	RES-CHIP	100	5%	1/10W
R3373	1-216-817-11	RES-CHIP	470	5%	1/10W	R3480	1-216-809-11	RES-CHIP	100	5%	1/10W
R3374	1-216-809-11	RES-CHIP	100	5%	1/10W	R3489	1-216-864-11	SHORT CHIP	0		
R3375	1-218-686-11	METAL CHIP	560	0.50%	1/16W	R3490	1-216-864-11	SHORT CHIP	0		
R3376	1-218-710-11	METAL CHIP	5.6K	0.50%	1/16W	R3494	1-216-813-11	RES-CHIP	220	5%	1/10W
R3377	1-216-817-11	RES-CHIP	470	5%	1/10W	R3497	1-216-829-11	RES-CHIP	4.7K	5%	1/10W
R3378	1-216-817-11	RES-CHIP	470	5%	1/10W	R3498	1-216-818-11	RES-CHIP	560	5%	1/10W
R3379	1-216-809-11	RES-CHIP	100	5%	1/10W	R3507	1-216-821-11	RES-CHIP	1K	5%	1/10W
R3380	1-218-686-11	METAL CHIP	560	0.50%	1/16W	R3508	1-216-821-11	RES-CHIP	1K	5%	1/10W
R3381	1-218-710-11	METAL CHIP	5.6K	0.50%	1/16W	R3509	1-216-821-11	RES-CHIP	1K	5%	1/10W
R3383	1-216-817-11	RES-CHIP	470	5%	1/10W	R3510	1-216-821-11	RES-CHIP	1K	5%	1/10W
R3395	1-216-864-11	SHORT CHIP	0			R3511	1-216-821-11	RES-CHIP	1K	5%	1/10W
R3396	1-216-864-11	SHORT CHIP	0			R3512	1-216-821-11	RES-CHIP	1K	5%	1/10W
R3400	1-216-864-11	SHORT CHIP	0			R3533	1-216-809-11	RES-CHIP	100	5%	1/10W
R3401	1-216-864-11	SHORT CHIP	0			R3534	1-216-809-11	RES-CHIP	100	5%	1/10W
R3406	1-216-833-11	RES-CHIP	10K	5%	1/10W	R3535	1-216-809-11	RES-CHIP	100	5%	1/10W
R3407	1-216-864-11	SHORT CHIP	0			R3536	1-216-833-11	RES-CHIP	10K	5%	1/10W
R3409	1-216-864-11	SHORT CHIP	0			R3537	1-216-833-11	RES-CHIP	10K	5%	1/10W
R3410	1-216-833-11	RES-CHIP	10K	5%	1/10W	R3538	1-216-864-11	SHORT CHIP	0		
R3411	1-216-797-11	RES-CHIP	10	5%	1/10W	R3539	1-216-864-11	SHORT CHIP	0		
R3421	1-216-864-11	SHORT CHIP	0			R3540	1-216-864-11	SHORT CHIP	0		
R3422	1-216-864-11	SHORT CHIP	0			R3541	1-216-864-11	SHORT CHIP	0		
R3425	1-216-864-11	SHORT CHIP	0			R3542	1-216-864-11	SHORT CHIP	0		
R3428	1-469-094-21	FERRITE	0μH			R3575	1-216-864-11	SHORT CHIP	0		
R3435	1-216-809-11	RES-CHIP	100	5%	1/10W	R3601	1-216-864-11	SHORT CHIP	0		
R3436	1-216-809-11	RES-CHIP	100	5%	1/10W	R3602	1-216-864-11	SHORT CHIP	0		



REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
R3603	1-216-864-11	SHORT CHIP	0			R3863	1-218-700-11	METAL CHIP	2.2K	0.50%	1/16W
R3604	1-216-864-11	SHORT CHIP	0			R3864	1-216-827-11	RES-CHIP	3.3K	5%	1/10W
R3605	1-216-864-11	SHORT CHIP	0			R3865	1-216-809-11	RES-CHIP	100	5%	1/10W
R3606	1-216-864-11	SHORT CHIP	0			R3866	1-414-234-22	FERRITE	0μH		
R3607	1-216-864-11	SHORT CHIP	0			R3867	1-414-234-22	FERRITE	0μH		
R3608	1-216-864-11	SHORT CHIP	0			R3868	1-414-234-22	FERRITE	0μH		
R3609	1-216-864-11	SHORT CHIP	0			R3881	1-216-807-11	RES-CHIP	68	5%	1/10W
R3610	1-216-833-11	RES-CHIP	10K	5%	1/10W	R3882	1-216-807-11	RES-CHIP	68	5%	1/10W
R3611	1-216-833-11	RES-CHIP	10K	5%	1/10W	R3883	1-216-807-11	RES-CHIP	68	5%	1/10W
R3612	1-216-845-11	RES-CHIP	100K	5%	1/10W	R3911	1-216-821-11	RES-CHIP	1K	5%	1/10W
R3613	1-216-801-11	RES-CHIP	22	5%	1/10W	R3917	1-216-809-11	RES-CHIP	100	5%	1/10W
R3614	1-216-827-11	RES-CHIP	3.3K	5%	1/10W	R3928	1-216-833-11	RES-CHIP	10K	5%	1/10W
R3615	1-218-867-11	RES-CHIP	6.8K	5%	1/10W	R3933	1-216-864-11	SHORT CHIP	0		
R3616	1-216-809-11	RES-CHIP	100	5%	1/10W	R3956	1-216-825-11	RES-CHIP	2.2K	5%	1/10W
R3617	1-216-833-11	RES-CHIP	10K	5%	1/10W	R3957	1-216-825-11	RES-CHIP	2.2K	5%	1/10W
R3800	1-216-864-11	SHORT CHIP	0			R3958	1-216-825-11	RES-CHIP	2.2K	5%	1/10W
R3811	1-216-809-11	RES-CHIP	100	5%	1/10W	R3973	1-216-809-11	RES-CHIP	100	5%	1/10W
R3812	1-216-809-11	RES-CHIP	100	5%	1/10W	R3974	1-216-833-11	RES-CHIP	10K	5%	1/10W
R3813	1-216-809-11	RES-CHIP	100	5%	1/10W	R3984	1-218-644-11	METAL CHIP	10	0.50%	1/16W
R3820	1-218-684-11	METAL CHIP	470	0.50%	1/16W	R3985	1-218-644-11	METAL CHIP	10	0.50%	1/16W
R3821	1-218-684-11	METAL CHIP	470	0.50%	1/16W	R3986	1-218-644-11	METAL CHIP	10	0.50%	1/16W
R3822	1-218-684-11	METAL CHIP	470	0.50%	1/16W	R8606	1-216-819-11	RES-CHIP	680	5%	1/10W
R3823	1-216-826-11	RES-CHIP	2.7K	5%	1/10W	R8607	1-216-819-11	RES-CHIP	680	5%	1/10W
R3824	1-216-826-11	RES-CHIP	2.7K	5%	1/10W	R8608	1-216-819-11	RES-CHIP	680	5%	1/10W
R3825	1-216-826-11	RES-CHIP	2.7K	5%	1/10W	R8609	1-216-809-11	RES-CHIP	100	5%	1/10W
R3826	1-216-809-11	RES-CHIP	100	5%	1/10W	R8610	1-216-809-11	RES-CHIP	100	5%	1/10W
R3828	1-218-682-11	METAL CHIP	390	0.50%	1/16W	R8611	1-216-809-11	RES-CHIP	100	5%	1/10W
R3829	1-218-682-11	METAL CHIP	390	0.50%	1/16W	R8612	1-216-820-11	RES-CHIP	820	5%	1/10W
R3830	1-218-682-11	METAL CHIP	390	0.50%	1/16W	R8613	1-216-820-11	RES-CHIP	820	5%	1/10W
R3831	1-216-864-11	SHORT CHIP	0			R8614	1-216-820-11	RES-CHIP	820	5%	1/10W
R3832	1-216-864-11	SHORT CHIP	0			R8615	1-216-809-11	RES-CHIP	100	5%	1/10W
R3833	1-216-864-11	SHORT CHIP	0			R8616	1-216-809-11	RES-CHIP	100	5%	1/10W
R3840	1-216-805-11	RES-CHIP	47	5%	1/10W	R8617	1-216-809-11	RES-CHIP	100	5%	1/10W
R3846	1-216-801-11	RES-CHIP	22	5%	1/10W	R8618	1-218-679-11	METAL CHIP	300	0.50%	1/16W
R3847	1-216-801-11	RES-CHIP	22	5%	1/10W	R8619	1-218-679-11	METAL CHIP	300	0.50%	1/16W
R3848	1-216-825-11	RES-CHIP	2.2K	5%	1/10W	R8620	1-218-675-11	METAL CHIP	200	0.50%	1/16W
R3849	1-218-675-11	METAL CHIP	200	0.50%	1/16W	R8621	1-216-821-11	RES-CHIP	1K	5%	1/10W
R3850	1-218-675-11	METAL CHIP	200	0.50%	1/16W	R8622	1-218-679-11	METAL CHIP	300	0.50%	1/16W
R3851	1-216-809-11	RES-CHIP	100	5%	1/10W	R8623	1-218-679-11	METAL CHIP	300	0.50%	1/16W
R3852	1-218-675-11	METAL CHIP	200	0.50%	1/16W	R8624	1-218-675-11	METAL CHIP	200	0.50%	1/16W
R3854	1-216-825-11	RES-CHIP	2.2K	5%	1/10W	R8625	1-216-821-11	RES-CHIP	1K	5%	1/10W
R3857	1-216-809-11	RES-CHIP	100	5%	1/10W	R8626	1-216-809-11	RES-CHIP	100	5%	1/10W
R3858	1-218-704-11	METAL CHIP	3.3K	0.50%	1/16W	R8627	1-216-809-11	RES-CHIP	100	5%	1/10W
R3862	1-216-825-11	RES-CHIP	2.2K	5%	1/10W	R8628	1-216-809-11	RES-CHIP	100	5%	1/10W



REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
R8629	1-216-823-11	RES-CHIP	1.5K	5%	1/10W	RB3402	1-234-524-21	RES, CHIP NETWORK	33		
R8630	1-216-823-11	RES-CHIP	1.5K	5%	1/10W	RB3403	1-234-524-21	RES, CHIP NETWORK	33		
R8631	1-216-823-11	RES-CHIP	1.5K	5%	1/10W	RB3404	1-234-524-21	RES, CHIP NETWORK	33		
R8632	1-216-821-11	RES-CHIP	1K	5%	1/10W	RB3405	1-234-524-21	RES, CHIP NETWORK	33		
R8636	1-216-821-11	RES-CHIP	1K	5%	1/10W	RB3406	1-234-524-21	RES, CHIP NETWORK	33		
R8637	1-216-821-11	RES-CHIP	1K	5%	1/10W	RB3407	1-239-409-11	RES, CHIP NETWORK	47	-3216	
R8638	1-216-821-11	RES-CHIP	1K	5%	1/10W	RB3408	1-239-409-11	RES, CHIP NETWORK	47	-3216	
R8639	1-218-704-11	METAL CHIP	3.3K	0.50%	1/16W	RB3409	1-239-409-11	RES, CHIP NETWORK	47	-3216	
R8641	1-216-821-11	RES-CHIP	1K	5%	1/10W	RB3410	1-239-409-11	RES, CHIP NETWORK	47	-3216	
R8642	1-218-703-11	METAL CHIP	3K	0.50%	1/16W	RB3411	1-239-409-11	RES, CHIP NETWORK	47	-3216	
R8643	1-216-821-11	RES-CHIP	1K	5%	1/10W	RB3412	1-239-409-11	RES, CHIP NETWORK	47	-3216	
R8645	1-216-821-11	RES-CHIP	1K	5%	1/10W	RB3421	1-233-576-11	RES, CHIP NETWORK	100		
R8646	1-216-821-11	RES-CHIP	1K	5%	1/10W	RB3422	1-233-576-11	RES, CHIP NETWORK	100		
R8647	1-216-833-11	RES-CHIP	10K	5%	1/10W	RB3423	1-233-576-11	RES, CHIP NETWORK	100		
R8648	1-216-830-11	RES-CHIP	5.6K	5%	1/10W	RB3424	1-233-576-11	RES, CHIP NETWORK	100		
R8650	1-216-833-11	RES-CHIP	10K	5%	1/10W	RB3425	1-233-576-11	RES, CHIP NETWORK	100		
R8651	1-216-801-11	RES-CHIP	22	5%	1/10W	RB3426	1-233-576-11	RES, CHIP NETWORK	100		
R8652	1-216-833-11	RES-CHIP	10K	5%	1/10W	RB3427	1-233-576-11	RES, CHIP NETWORK	100		
R8653	1-216-833-11	RES-CHIP	10K	5%	1/10W	RB3428	1-233-576-11	RES, CHIP NETWORK	100		
R8654	1-216-864-11	SHORT CHIP	0			RB3436	1-234-523-21	RES, CHIP NETWORK	0	-3216	
R8655	1-216-864-11	SHORT CHIP	0			RB3437	1-234-523-21	RES, CHIP NETWORK	0	-3216	
RESISTOR BRIDGE						RB3438	1-234-523-21	RES, CHIP NETWORK	0	-3216	
RB3005	1-239-409-11	RES, CHIP NETWORK	47		-3216	RB3439	1-234-523-21	RES, CHIP NETWORK	0	-3216	
RB3006	1-239-409-11	RES, CHIP NETWORK	47		-3216	CRYSTAL					
RB3007	1-239-409-11	RES, CHIP NETWORK	47		-3216	X2801	1-760-895-21	VIBRATOR, CERAMIC			
RB3008	1-239-409-11	RES, CHIP NETWORK	47		-3216	X3089	1-781-945-21	VIBRATOR, CERAMIC			
RB3009	1-239-409-11	RES, CHIP NETWORK	47		-3216	X3401	1-781-887-21	VIBRATOR, CRYSTAL			
RB3010	1-239-409-11	RES, CHIP NETWORK	47		-3216	MS1 The MS1 board is not field repairable. If service is required, use the following part number to order a complete replacement board. Data is provided for reference only. * A-1300-408-A MS1 BOARD, COMPLETE CAPACITOR					
RB3011	1-239-409-11	RES, CHIP NETWORK	47		-3216	C101	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
RB3012	1-239-409-11	RES, CHIP NETWORK	47		-3216	C102	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
RB3013	1-239-409-11	RES, CHIP NETWORK	47		-3216	C103	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
RB3014	1-239-409-11	RES, CHIP NETWORK	47		-3216	C105	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
RB3015	1-239-409-11	RES, CHIP NETWORK	47		-3216	C106	1-110-501-11	CERAMIC CHIP	0.33µF	10%	16V
RB3100	1-233-574-11	RES, CHIP NETWORK	10			C107	1-126-390-11	ELECT CHIP	22µF	20%	6.3V
RB3101	1-233-574-11	RES, CHIP NETWORK	10			C108	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
RB3102	1-233-574-11	RES, CHIP NETWORK	10								
RB3103	1-233-574-11	RES, CHIP NETWORK	10								
RB3304	1-233-576-11	RES, CHIP NETWORK	100								
RB3305	1-233-576-11	RES, CHIP NETWORK	100								
RB3306	1-233-576-11	RES, CHIP NETWORK	100								
RB3307	1-233-576-11	RES, CHIP NETWORK	100								
RB3401	1-234-524-21	RES, CHIP NETWORK	33								

MS1

REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
C109	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	C158	1-124-779-00	ELECT CHIP	10μF	20%	16V
C110	1-126-394-11	ELECT CHIP	10μF	20%	16V	C159	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C111	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C160	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C112	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C161	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C113	1-162-916-11	CERAMIC CHIP	12pF	5%	50V	C162	1-126-394-11	ELECT CHIP	10μF	20%	16V
C114	1-162-916-11	CERAMIC CHIP	12pF	5%	50V	C163	1-126-394-11	ELECT CHIP	10μF	20%	16V
C115	1-115-416-11	CERAMIC CHIP	0.001μF	5%	25V	C165	1-124-779-00	ELECT CHIP	10μF	20%	16V
C116	1-115-416-11	CERAMIC CHIP	0.001μF	5%	25V	C166	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C117	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C167	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C118	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	C168	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C119	1-216-864-11	SHORT CHIP	0			C169	1-124-779-00	ELECT CHIP	10μF	20%	16V
C121	1-216-821-11	RES-CHIP	1K	5%	1/10W	C185	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C123	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	CONNECTOR					
C124	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	CN104	1-816-068-21	CONNECTOR, BOARD TO BOARD 60P			
C125	1-128-934-91	CERAMIC CHIP	0.33μF	20%	10V	DIODE					
C127	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	D102	8-719-024-79	DIODE HN2D01FU-TE85R			
C128	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	D103	8-719-024-79	DIODE HN2D01FU-TE85R			
C129	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	D104	8-719-024-79	DIODE HN2D01FU-TE85R			
C130	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	D105	8-719-024-79	DIODE HN2D01FU-TE85R			
C131	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	D106	8-719-024-79	DIODE HN2D01FU-TE85R			
C132	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	FERRITE BEAD					
C133	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	FB101	1-414-921-11	FERRITE	0μH		
C134	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	FB102	1-414-921-11	FERRITE	0μH		
C135	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	FB103	1-414-921-11	FERRITE	0μH		
C136	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	FB104	1-414-921-11	FERRITE	0μH		
C137	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	FB105	1-414-921-11	FERRITE	0μH		
C138	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	FB106	1-500-451-11	FERRITE	0μH		
C139	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	FB107	1-414-921-11	FERRITE	0μH		
C140	1-126-390-11	ELECT CHIP	22μF	20%	6.3V	FB108	1-414-921-11	FERRITE	0μH		
C141	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	FB109	1-414-921-11	FERRITE	0μH		
C142	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	FB110	1-414-921-11	FERRITE	0μH		
C143	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	FB111	1-414-921-11	FERRITE	0μH		
C144	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	FB112	1-414-228-11	FERRITE	0μH		
C145	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	FB120	1-414-921-11	FERRITE	0μH		
C146	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	FB121	1-414-921-11	FERRITE	0μH		
C147	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	FB122	1-414-921-11	FERRITE	0μH		
C148	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	FB123	1-414-921-11	FERRITE	0μH		
C149	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	FB124	1-414-921-11	FERRITE	0μH		
C150	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	FB125	1-414-921-11	FERRITE	0μH		
C151	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	FB126	1-414-921-11	FERRITE	0μH		
C152	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	FB137	1-414-921-11	FERRITE	0μH		
C153	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V						
C154	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V						

NOTE: The components identified by shading and  mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifiés par un trame et une  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

MS1

REF. NO.	PART NO.	DESCRIPTION	VALUES	REF. NO.	PART NO.	DESCRIPTION	VALUES
FB138	1-414-921-11	FERRITE	0μH	RESISTOR			
FB139	1-414-921-11	FERRITE	0μH	R101	1-216-797-11	RES-CHIP	10 5% 1/10W
FB140	1-216-864-11	SHORT CHIP	0	R102	1-216-797-11	RES-CHIP	10 5% 1/10W
FB141	1-414-921-11	FERRITE	0μH	R103	1-216-797-11	RES-CHIP	10 5% 1/10W
FB142	1-216-864-11	SHORT CHIP	0	R104	1-216-864-11	SHORT CHIP	0
FB143	1-414-921-11	FERRITE	0μH	R105	1-216-864-11	SHORT CHIP	0
FB144	1-216-864-11	SHORT CHIP	0	R106	1-216-864-11	SHORT CHIP	0
FB145	1-216-864-11	SHORT CHIP	0	R107	1-216-864-11	SHORT CHIP	0
FB146	1-216-864-11	SHORT CHIP	0	R108	1-216-833-11	RES-CHIP	10K 5% 1/10W
FB147	1-216-864-11	SHORT CHIP	0	R109	1-216-864-11	SHORT CHIP	0
FB148	1-216-864-11	SHORT CHIP	0	R110	1-216-833-11	RES-CHIP	10K 5% 1/10W
FB149	1-414-921-11	FERRITE	0μH	R111	1-216-833-11	RES-CHIP	10K 5% 1/10W
FB152	1-216-864-11	SHORT CHIP	0	R112	1-216-833-11	RES-CHIP	10K 5% 1/10W
FB153	1-216-864-11	SHORT CHIP	0	R113	1-216-833-11	RES-CHIP	10K 5% 1/10W
FB154	1-216-864-11	SHORT CHIP	0	R114	1-216-864-11	SHORT CHIP	0
FB155	1-216-864-11	SHORT CHIP	0	R115	1-216-845-11	RES-CHIP	100K 5% 1/10W
IC				R116	1-216-845-11	RES-CHIP	100K 5% 1/10W
IC101	6-700-921-01	IC MD2305F		R117	1-216-864-11	SHORT CHIP	0
 IC102	6-801-874-11	IC SST39VF800A70-11124-T		R118	1-216-845-11	RES-CHIP	100K 5% 1/10W
IC103	6-701-043-11	IC HM62V16256CLTT-5SLZ		R119	1-216-845-11	RES-CHIP	100K 5% 1/10W
IC104	8-759-460-72	IC BA033FP-E2		R120	1-216-845-11	RES-CHIP	100K 5% 1/10W
IC105	8-759-584-32	IC MB86189pFV-G-BND-ER		R121	1-216-864-11	SHORT CHIP	0
IC106	8-759-661-55	IC 24LC21AT/SN		R122	1-216-833-11	RES-CHIP	10K 5% 1/10W
IC108	6-702-511-01	IC MT48LC8M16A2TG-75-Y95W		R123	1-216-833-11	RES-CHIP	10K 5% 1/10W
IC109	6-702-038-01	IC PST3628NL		R126	1-216-821-11	RES-CHIP	1K 5% 1/10W
IC110	6-800-922-01	IC ISPLSI2032VE-110LT44/10921		R127	1-216-833-11	RES-CHIP	10K 5% 1/10W
IC115	8-759-698-31	IC TC7WH74FK(Te85R)		R128	1-216-864-11	SHORT CHIP	0
IC119	8-759-592-50	IC TC7SZ126FU(Te85R)		R130	1-216-845-11	RES-CHIP	100K 5% 1/10W
IC120	8-759-592-50	IC TC7SZ126FU(Te85R)		R131	1-216-821-11	RES-CHIP	1K 5% 1/10W
IC121	8-752-927-18	IC CXP85112B-679Q		R132	1-216-827-11	RES-CHIP	3.3K 5% 1/10W
IC122	8-759-349-11	IC PST9145NL		R133	1-218-867-11	RES-CHIP	6.8K 5% 1/10W
IC126	8-759-058-58	IC TC7S04FU(Te85R)		R134	1-216-833-11	RES-CHIP	10K 5% 1/10W
COIL				R135	1-216-833-11	RES-CHIP	10K 5% 1/10W
L106	1-469-555-21	INDUCTOR	10μH	R136	1-216-809-11	RES-CHIP	100 5% 1/10W
L107	1-469-561-21	INDUCTOR	100μH	R138	1-216-833-11	RES-CHIP	10K 5% 1/10W
TRANSISTOR				R140	1-216-833-11	RES-CHIP	10K 5% 1/10W
Q101	8-729-013-28	TRANSISTOR HN1B01FU-TE85R		R141	1-216-864-11	SHORT CHIP	0
Q103	8-729-013-28	TRANSISTOR HN1B01FU-TE85R		R142	1-216-864-11	SHORT CHIP	0
Q104	8-729-013-28	TRANSISTOR HN1B01FU-TE85R		R143	1-216-833-11	RES-CHIP	10K 5% 1/10W
Q105	8-729-427-72	TRANSISTOR HN1C01FU-TE85R		R144	1-216-809-11	RES-CHIP	100 5% 1/10W
Q110	8-729-900-53	TRANSISTOR DTC114EKA-T146		R145	1-216-809-11	RES-CHIP	100 5% 1/10W
Q116	8-729-900-53	TRANSISTOR DTC114EKA-T146		R146	1-216-829-11	RES-CHIP	4.7K 5% 1/10W
				R147	1-216-864-11	SHORT CHIP	0

MS1

REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
R148	1-216-839-11	RES-CHIP	33K	5%	1/10W	R208	1-216-801-11	RES-CHIP	22	5%	1/10W
R149	1-216-839-11	RES-CHIP	33K	5%	1/10W	R209	1-216-809-11	RES-CHIP	100	5%	1/10W
R152	1-216-833-11	RES-CHIP	10K	5%	1/10W	R213	1-218-830-11	METAL CHIP	200	0.50%	1/10W
R153	1-216-829-11	RES-CHIP	4.7K	5%	1/10W	R216	1-216-864-11	SHORT CHIP	0		
R154	1-216-864-11	SHORT CHIP	0			R217	1-216-833-11	RES-CHIP	10K	5%	1/10W
R155	1-216-864-11	SHORT CHIP	0			R218	1-216-825-11	RES-CHIP	2.2K	5%	1/10W
R156	1-216-845-11	RES-CHIP	100K	5%	1/10W	R219	1-216-833-11	RES-CHIP	10K	5%	1/10W
R157	1-216-809-11	RES-CHIP	100	5%	1/10W	R220	1-216-864-11	SHORT CHIP	0		
R158	1-216-864-11	SHORT CHIP	0			R221	1-216-809-11	RES-CHIP	100	5%	1/10W
R159	1-216-833-11	RES-CHIP	10K	5%	1/10W	R222	1-216-809-11	RES-CHIP	100	5%	1/10W
R160	1-216-833-11	RES-CHIP	10K	5%	1/10W	R224	1-216-833-11	RES-CHIP	10K	5%	1/10W
R161	1-216-801-11	RES-CHIP	22	5%	1/10W	R225	1-216-833-11	RES-CHIP	10K	5%	1/10W
R162	1-216-809-11	RES-CHIP	100	5%	1/10W	R226	1-216-833-11	RES-CHIP	10K	5%	1/10W
R163	1-216-809-11	RES-CHIP	100	5%	1/10W	R230	1-216-833-11	RES-CHIP	10K	5%	1/10W
R164	1-216-833-11	RES-CHIP	10K	5%	1/10W	R231	1-216-864-11	SHORT CHIP	0		
R166	1-216-864-11	SHORT CHIP	0			R233	1-216-833-11	RES-CHIP	10K	5%	1/10W
R167	1-216-809-11	RES-CHIP	100	5%	1/10W	R245	1-216-833-11	RES-CHIP	10K	5%	1/10W
R168	1-216-864-11	SHORT CHIP	0			R246	1-216-809-11	RES-CHIP	100	5%	1/10W
R169	1-216-809-11	RES-CHIP	100	5%	1/10W	R283	1-216-833-11	RES-CHIP	10K	5%	1/10W
R170	1-216-864-11	SHORT CHIP	0			R284	1-216-833-11	RES-CHIP	10K	5%	1/10W
R171	1-216-809-11	RES-CHIP	100	5%	1/10W	R286	1-216-833-11	RES-CHIP	10K	5%	1/10W
R172	1-216-864-11	SHORT CHIP	0			R287	1-216-833-11	RES-CHIP	10K	5%	1/10W
R173	1-216-801-11	RES-CHIP	22	5%	1/10W	R288	1-216-797-11	RES-CHIP	10	5%	1/10W
R174	1-216-864-11	SHORT CHIP	0			R290	1-216-797-11	RES-CHIP	10	5%	1/10W
R176	1-216-864-11	SHORT CHIP	0			R292	1-216-821-11	RES-CHIP	1K	5%	1/10W
R177	1-216-864-11	SHORT CHIP	0			R295	1-216-864-11	SHORT CHIP	0		
R178	1-216-864-11	SHORT CHIP	0			R297	1-216-833-11	RES-CHIP	10K	5%	1/10W
R180	1-216-829-11	RES-CHIP	4.7K	5%	1/10W	R9239	1-216-803-11	RES-CHIP	33	5%	1/10W
R181	1-216-833-11	RES-CHIP	10K	5%	1/10W	R9240	1-216-803-11	RES-CHIP	33	5%	1/10W
R184	1-216-809-11	RES-CHIP	100	5%	1/10W	R9242	1-216-803-11	RES-CHIP	33	5%	1/10W
R186	1-216-864-11	SHORT CHIP	0			R9243	1-216-803-11	RES-CHIP	33	5%	1/10W
R189	1-216-864-11	SHORT CHIP	0			RESISTOR BRIDGE					
R190	1-216-864-11	SHORT CHIP	0			RB101	1-233-810-21	RES, NETWORK	100K	-3216	
R192	1-216-833-11	RES-CHIP	10K	5%	1/10W	RB102	1-233-810-21	RES, NETWORK	100K	-3216	
R193	1-216-833-11	RES-CHIP	10K	5%	1/10W	RB103	1-233-810-21	RES, NETWORK	100K	-3216	
R195	1-216-801-11	RES-CHIP	22	5%	1/10W	RB104	1-233-810-21	RES, NETWORK	100K	-3216	
R196	1-216-809-11	RES-CHIP	100	5%	1/10W	RB105	1-233-576-11	RES, CHIP NETWORK	100		
R197	1-216-809-11	RES-CHIP	100	5%	1/10W	RB106	1-236-908-11	RES, CHIP NETWORK	10K	-3216	
R199	1-216-833-11	RES-CHIP	10K	5%	1/10W	RB107	1-233-574-11	RES, CHIP NETWORK	10		
R200	1-216-833-11	RES-CHIP	10K	5%	1/10W	RB108	1-233-574-11	RES, CHIP NETWORK	10		
R203	1-216-864-11	SHORT CHIP	0			RB109	1-233-574-11	RES, CHIP NETWORK	10		
R204	1-216-864-11	SHORT CHIP	0			RB110	1-233-574-11	RES, CHIP NETWORK	10		
R206	1-216-809-11	RES-CHIP	100	5%	1/10W						
R207	1-216-864-11	SHORT CHIP	0								

NOTE: The components identified by shading and  mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifiés par un trame et une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.



REF. NO.	PART NO.	DESCRIPTION	VALUES	REF. NO.	PART NO.	DESCRIPTION	VALUES
C6723	1-126-949-11	ELECT	220µF 20% 35V	FERRITE BEAD			
C6724	1-126-967-11	ELECT	47µF 20% 50V	FB6503	1-410-396-41	FERRITE	0.45µH
C6725	1-162-964-11	CERAMIC CHIP	0.001µF 10% 50V	FB6504	1-410-396-41	FERRITE	0.45µH
C6726	1-126-947-11	ELECT	47µF 20% 25V	FB6505	1-410-397-21	FERRITE	1.1µH
C6727	1-126-968-11	ELECT	100µF 20% 50V	FB6508	1-410-397-21	FERRITE	1.1µH
CONNECTOR				FB6509	1-410-396-41	FERRITE	0.45µH
CN6503	1-779-092-11	PIN,CONNECTOR (PC BOARD)	10P	FB6510	1-410-396-41	FERRITE	0.45µH
* CN6504	1-564-508-11	PLUG,CONNECTOR	5P	FB6511	1-410-396-41	FERRITE	0.45µH
* CN6505	1-564-507-11	PLUG,CONNECTOR	4P	FB6512	1-410-396-41	FERRITE	0.45µH
CN6506	1-764-334-11	PLUG,CONNECTOR	11P	FB6703	1-410-396-41	FERRITE	0.45µH
* CN6507	1-564-515-11	PLUG,CONNECTOR	12P	IC			
* CN6701	1-766-240-11	PIN,CONNECTOR (PC BOARD)	2P	IC6501	8-759-394-35	IC BA12T	
DIODE				IC6502	8-759-103-93	IC UPC393C	
D6501	8-719-988-61	DIODE 1SS355TE-17		 IC6503	8-749-012-13	IC DM-58	
D6502	8-719-052-92	DIODE D10SBS4F		 IC6504	8-759-198-31	IC UPC1093J-1-T	
D6503	8-719-510-37	DIODE D5LC20U		IC6701	8-759-670-30	IC MCZ3001D	
D6504	8-719-988-61	DIODE 1SS355TE-17		CHIP CONDUCTOR			
D6505	8-719-988-61	DIODE 1SS355TE-17		JR6502	1-216-295-91	SHORT CHIP	0
D6507	8-719-083-67	DIODE UDZSTE-1720B		JR6503	1-216-295-91	SHORT CHIP	0
D6511	8-719-060-89	DIODE D4SBS6-F		JR6504	1-216-295-91	SHORT CHIP	0
D6514	8-719-063-74	DIODE D1NL20U-TR2		JR6505	1-216-295-91	SHORT CHIP	0
D6515	8-719-060-89	DIODE D4SBS6-F		JR6506	1-216-295-91	SHORT CHIP	0
D6517	8-719-083-73	DIODE UDZSTE-1736B		JR6507	1-216-295-91	SHORT CHIP	0
D6518	8-719-050-18	DIODE D4SBL20U		JR6508	1-216-295-91	SHORT CHIP	0
D6519	8-719-060-89	DIODE D4SBS6-F		JR6509	1-216-295-91	SHORT CHIP	0
D6522	8-719-083-60	DIODE UDZSTE-174.7B		JR6511	1-216-295-91	SHORT CHIP	0
D6523	8-719-988-61	DIODE 1SS355TE-17		JR6512	1-216-295-91	SHORT CHIP	0
D6524	8-719-988-61	DIODE 1SS355TE-17		JR6513	1-216-295-91	SHORT CHIP	0
D6525	8-719-988-61	DIODE 1SS355TE-17		COIL			
D6526	8-719-988-61	DIODE 1SS355TE-17		L6501	1-406-661-21	INDUCTOR	22µH
D6527	8-719-988-61	DIODE 1SS355TE-17		L6504	1-412-529-11	INDUCTOR	22µH
D6534	8-719-018-84	DIODE D2S6MTA1		L6505	1-412-529-11	INDUCTOR	22µH
D6535	8-719-018-84	DIODE D2S6MTA1		L6506	1-412-525-31	INDUCTOR	10µH
D6537	8-719-018-84	DIODE D2S6MTA1		L6507	1-412-525-31	INDUCTOR	10µH
D6538	8-719-018-84	DIODE D2S6MTA1		L6509	1-412-529-11	INDUCTOR	22µH
D6539	8-719-988-61	DIODE 1SS355TE-17		L6511	1-412-529-11	INDUCTOR	22µH
D6540	8-719-988-61	DIODE 1SS355TE-17		L6512	1-412-533-21	INDUCTOR	47µH
D6701	8-719-068-00	DIODE ERC04-06SE		L6513	1-412-533-21	INDUCTOR	47µH
D6702	8-719-022-99	DIODE D6SB60L		L6514	1-406-665-11	INDUCTOR	100µH
D6703	8-719-068-00	DIODE ERC04-06SE		L6515	1-406-659-11	INDUCTOR	10µH
D6706	8-719-948-45	DIODE ERA22-08		L6517	1-414-189-31	INDUCTOR	100µH
D6712	6-500-158-01	DIODE 10ERA60-TA2B5		L6518	1-412-524-11	INDUCTOR	8.2µH
D6715	8-719-063-70	DIODE D1NL20U-TA2					
D6716	8-719-988-61	DIODE 1SS355TE-17					

NOTE: The components identified by shading and  mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifiés par un trame et une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.



REF. NO.	PART NO.	DESCRIPTION	VALUES
L6519	1-412-524-11	INDUCTOR	8.2μH
L6520	1-414-158-11	INDUCTOR	2.2μH
L6521	1-414-158-11	INDUCTOR	2.2μH
L6701	1-424-862-11	INDUCTOR	33μH

PHOTO COUPLER

	PH6001	8-749-924-35	PHOTO COUPLER	ON3171-R
	PH6002	8-749-924-35	PHOTO COUPLER	ON3171-R

IC LINK

	PS6501	1-533-597-41	LINK, IC
	PS6502	1-533-597-41	LINK, IC
	PS6503	1-533-597-31	LINK, IC
	PS6504	1-533-597-31	LINK, IC
	PS6505	1-533-597-31	LINK, IC

	PS6506	1-533-597-31	LINK, IC
	PS6507	1-533-282-21	LINK, IC
	PS6508	1-533-597-31	LINK, IC
	PS6509	1-533-597-31	LINK, IC

TRANSISTOR

Q6502	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR
Q6503	8-729-050-50	TRANSISTOR 2SD1782K-T146-R
Q6504	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR
Q6701	8-729-052-32	TRANSISTOR IRFIB7N50A-LF31
Q6702	8-729-052-32	TRANSISTOR IRFIB7N50A-LF31

RESISTOR

R6501	1-216-073-91	RES-CHIP	10K	5%	1/10W
R6505	1-215-900-11	METAL OXIDE	22K	5%	2W
R6506	1-216-361-00	METAL OXIDE	0.22	5%	2W
R6507	1-216-073-91	RES-CHIP	10K	5%	1/10W
R6508	1-216-375-00	METAL OXIDE	3.3	5%	2W
R6510	1-216-821-11	RES-CHIP	1K	5%	1/10W
R6511	1-216-824-11	RES-CHIP	1.8K	5%	1/10W
R6512	1-216-833-11	RES-CHIP	10K	5%	1/10W
R6513	1-216-295-91	SHORT CHIP	0		
R6514	1-216-833-11	RES-CHIP	10K	5%	1/10W
R6515	1-216-821-11	RES-CHIP	1K	5%	1/10W
	R6516	1-218-740-11	METAL CHIP	100K	0.50% 1/16W
	R6517	1-218-708-11	METAL CHIP	4.7K	0.50% 1/16W
	R6518	1-249-415-11	CARBON	680	5% 1/4W
R6519	1-218-708-11	METAL CHIP	4.7K	0.50%	1/16W
R6520	1-218-690-11	METAL CHIP	820	0.50%	1/16W
R6521	1-216-833-11	RES-CHIP	10K	5%	1/10W

R6523	1-216-821-11	RES-CHIP	1K	5%	1/10W
R6524	1-216-833-11	RES-CHIP	10K	5%	1/10W
R6525	1-216-821-11	RES-CHIP	1K	5%	1/10W
R6526	1-216-833-11	RES-CHIP	10K	5%	1/10W
R6527	1-216-837-11	RES-CHIP	22K	5%	1/10W

R6528	1-216-837-11	RES-CHIP	22K	5%	1/10W
	R6535	1-218-740-11	METAL CHIP	100K	0.50% 1/16W
	R6536	1-218-736-11	METAL CHIP	68K	0.50% 1/16W
R6537	1-249-405-11	CARBON	100	5%	1/4W
R6538	1-216-829-11	RES-CHIP	4.7K	5%	1/10W

R6539	1-218-708-11	METAL CHIP	4.7K	0.50%	1/16W
	R6702	1-202-933-61	FUSIBLE	0.1	10% 1/2W
R6703	1-260-131-11	CARBON	470K	5%	1/2W
R6705	1-240-251-11	CEMENTED	6.8	5%	10W
R6707	1-260-131-11	CARBON	470K	5%	1/2W

R6709	1-260-328-11	CARBON	1K	5%	1/2W
R6710	1-215-481-00	METAL	330K	1%	1/4W
R6711	1-215-481-00	METAL	330K	1%	1/4W
	R6712	1-249-417-11	CARBON	1K	5% 1/4W
	R6713	1-249-393-11	CARBON	10	5% 1/4W

R6714	1-215-481-00	METAL	330K	1%	1/4W
R6715	1-216-829-11	RES-CHIP	4.7K	5%	1/10W
R6718	1-216-833-11	RES-CHIP	10K	5%	1/10W
R6721	1-218-715-11	METAL CHIP	9.1K	0.50%	1/16W
	R6722	1-249-393-11	CARBON	10	5% 1/4W

R6723	1-218-720-11	METAL CHIP	15K	0.50%	1/16W
R6725	1-249-393-11	CARBON	10	5%	1/4W
R6727	1-216-833-11	RES-CHIP	10K	5%	1/10W
R6728	1-243-979-71	METAL OXIDE	0.1	5%	2W
R6729	1-243-979-71	METAL OXIDE	0.1	5%	2W

R6730	1-218-668-11	METAL CHIP	100	0.50%	1/16W
R6731	1-218-675-11	METAL CHIP	200	0.50%	1/16W
R6732	1-216-813-11	RES-CHIP	220	5%	1/10W
R6733	1-216-813-11	RES-CHIP	220	5%	1/10W

RELAY

	RY6701	1-755-395-11	RELAY (AC POWER)
	RY6702	1-755-395-11	RELAY (AC POWER)

TRANSFORMER

	T6703	1-437-738-11	TRANSFORMER, CONVERTER (PIT)
---	-------	--------------	------------------------------



The AD board is not field repairable. If service is required, use the following part number to order a complete replacement board. Data is provided for reference only.

* **A-1300-411-A AD BOARD, COMPLETE**

CAPACITOR

C9401	1-126-933-11	ELECT	100µF	20%	16V
C9402	1-126-933-11	ELECT	100µF	20%	16V
C9403	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C9404	1-162-919-11	CERAMIC CHIP	22pF	5%	50V
C9405	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C9406	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C9407	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C9408	1-162-919-11	CERAMIC CHIP	22pF	5%	50V
C9409	1-126-933-11	ELECT	100µF	20%	16V
C9410	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C9411	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V
C9413	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C9414	1-126-933-11	ELECT	100µF	20%	16V
C9415	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C9416	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C9419	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C9422	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C9424	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C9425	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C9426	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C9427	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C9428	1-126-933-11	ELECT	100µF	20%	16V
C9429	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C9430	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C9431	1-126-963-11	ELECT	4.7µF	20%	50V
C9432	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C9433	1-126-933-11	ELECT	100µF	20%	16V
C9434	1-126-933-11	ELECT	100µF	20%	16V
C9440	1-164-315-11	CERAMIC CHIP	470pF	5%	50V
C9441	1-164-315-11	CERAMIC CHIP	470pF	5%	50V
C9442	1-115-412-11	CERAMIC CHIP	680pF	5%	25V
C9444	1-115-412-11	CERAMIC CHIP	680pF	5%	25V
C9446	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C9447	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C9448	1-164-156-11	CERAMIC CHIP	0.1µF		25V

REF. NO.	PART NO.	DESCRIPTION	VALUES		
C9450	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C9452	1-162-927-11	CERAMIC CHIP	100pF	5%	50V
C9453	1-162-927-11	CERAMIC CHIP	100pF	5%	50V
C9454	1-162-910-11	CERAMIC CHIP	5pF	0.25pF	50V
C9458	1-162-910-11	CERAMIC CHIP	5pF	0.25pF	50V
C9459	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C9460	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C9461	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C9462	1-126-933-11	ELECT	100µF	20%	16V
C9463	1-126-933-11	ELECT	100µF	20%	16V
C9464	1-126-933-11	ELECT	100µF	20%	16V
C9465	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C9466	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C9467	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C9468	1-164-315-11	CERAMIC CHIP	470pF	5%	50V
C9469	1-164-315-11	CERAMIC CHIP	470pF	5%	50V
C9470	1-115-412-11	CERAMIC CHIP	680pF	5%	25V
C9471	1-126-947-11	ELECT	47µF	20%	25V
C9472	1-115-412-11	CERAMIC CHIP	680pF	5%	25V
C9474	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C9475	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C9476	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C9478	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C9480	1-162-927-11	CERAMIC CHIP	100pF	5%	50V
C9481	1-162-927-11	CERAMIC CHIP	100pF	5%	50V
C9482	1-162-910-11	CERAMIC CHIP	5pF	0.25pF	50V
C9483	1-162-910-11	CERAMIC CHIP	5pF	0.25pF	50V
C9484	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C9485	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C9486	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C9488	1-126-933-11	ELECT	100µF	20%	16V
C9489	1-126-933-11	ELECT	100µF	20%	16V
C9490	1-126-933-11	ELECT	100µF	20%	16V
C9491	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C9492	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C9493	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C9494	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C9495	1-162-968-11	CERAMIC CHIP	0.0047µF	10%	50V
C9498	1-126-933-11	ELECT	100µF	20%	16V
C9501	1-164-315-11	CERAMIC CHIP	470pF	5%	50V
C9502	1-115-412-11	CERAMIC CHIP	680pF	5%	25V
C9503	1-164-315-11	CERAMIC CHIP	470pF	5%	50V
C9505	1-115-412-11	CERAMIC CHIP	680pF	5%	25V
C9506	1-164-156-11	CERAMIC CHIP	0.1µF		25V



REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
C9508	1-164-156-11	CERAMIC CHIP	0.1μF		25V	DIODE					
C9509	1-164-156-11	CERAMIC CHIP	0.1μF		25V	D9400	8-719-988-61	DIODE 1SS355TE-17			
C9511	1-162-927-11	CERAMIC CHIP	100pF	5%	50V	D9401	8-719-988-61	DIODE 1SS355TE-17			
C9512	1-164-156-11	CERAMIC CHIP	0.1μF		25V	D9402	8-719-988-61	DIODE 1SS355TE-17			
C9514	1-162-910-11	CERAMIC CHIP	5pF	0.25pF	50V	D9404	8-719-988-61	DIODE 1SS355TE-17			
C9515	1-162-927-11	CERAMIC CHIP	100pF	5%	50V	D9405	8-719-988-61	DIODE 1SS355TE-17			
C9516	1-162-910-11	CERAMIC CHIP	5pF	0.25pF	50V	D9406	8-719-069-54	DIODE UDZSTE-175.1B			
C9517	1-164-156-11	CERAMIC CHIP	0.1μF		25V	D9407	8-719-069-54	DIODE UDZSTE-175.1B			
C9518	1-164-156-11	CERAMIC CHIP	0.1μF		25V	D9408	8-719-069-54	DIODE UDZSTE-175.1B			
C9520	1-164-173-11	CERAMIC CHIP	0.0039μF	10%	50V	D9409	8-719-069-54	DIODE UDZSTE-175.1B			
C9521	1-164-173-11	CERAMIC CHIP	0.0039μF	10%	50V	FERRITE BEAD					
C9523	1-164-173-11	CERAMIC CHIP	0.0039μF	10%	50V	FB9401	1-414-445-11	FERRITE		0μH	
C9524	1-164-173-11	CERAMIC CHIP	0.0039μF	10%	50V	FB9402	1-414-445-11	FERRITE		0μH	
C9525	1-164-156-11	CERAMIC CHIP	0.1μF		25V	FB9403	1-414-445-11	FERRITE		0μH	
C9526	1-164-156-11	CERAMIC CHIP	0.1μF		25V	FB9404	1-414-445-11	FERRITE		0μH	
C9527	1-164-156-11	CERAMIC CHIP	0.1μF		25V	FB9405	1-414-445-11	FERRITE		0μH	
C9528	1-164-156-11	CERAMIC CHIP	0.1μF		25V	FB9406	1-414-445-11	FERRITE		0μH	
C9531	1-164-156-11	CERAMIC CHIP	0.1μF		25V	FB9407	1-414-445-11	FERRITE		0μH	
C9532	1-164-156-11	CERAMIC CHIP	0.1μF		25V	FB9408	1-414-445-11	FERRITE		0μH	
C9540	1-164-156-11	CERAMIC CHIP	0.1μF		25V	FB9409	1-414-445-11	FERRITE		0μH	
C9541	1-164-156-11	CERAMIC CHIP	0.1μF		25V	FB9410	1-414-445-11	FERRITE		0μH	
C9542	1-164-156-11	CERAMIC CHIP	0.1μF		25V	FB9411	1-414-445-11	FERRITE		0μH	
C9543	1-164-156-11	CERAMIC CHIP	0.1μF		25V	FB9412	1-414-445-11	FERRITE		0μH	
C9546	1-164-156-11	CERAMIC CHIP	0.1μF		25V	FB9413	1-414-445-11	FERRITE		0μH	
C9547	1-164-392-11	CERAMIC CHIP	390pF	5%	50V	FB9414	1-414-445-11	FERRITE		0μH	
C9548	1-162-927-11	CERAMIC CHIP	100pF	5%	50V	FB9415	1-414-445-11	FERRITE		0μH	
C9549	1-115-416-11	CERAMIC CHIP	0.001μF	5%	25V	FB9416	1-414-445-11	FERRITE		0μH	
C9550	1-164-156-11	CERAMIC CHIP	0.1μF		25V	FB9417	1-414-445-11	FERRITE		0μH	
C9552	1-162-974-11	CERAMIC CHIP	0.01μF		50V	IC					
C9553	1-126-947-11	ELECT	47μF	20%	25V	IC9400	8-752-932-80	IC CXP86460-645Q			
C9554	1-126-947-11	ELECT	47μF	20%	25V	IC9401	8-759-683-55	IC CM0017AF			
C9555	1-126-916-11	ELECT	1000μF	20%	6.3V	IC9402	6-700-319-01	IC M24128-BWMN6T			
C9557	1-164-156-11	CERAMIC CHIP	0.1μF		25V	IC9403	8-759-352-91	IC PST9143NL			
C9558	1-126-933-11	ELECT	100μF	20%	16V	IC9405	8-759-830-08	IC NJM2068V-TE2			
C9559	1-164-156-11	CERAMIC CHIP	0.1μF		25V	IC9406	8-759-830-08	IC NJM2068V-TE2			
CONNECTOR						IC9407	8-759-829-87	IC CD0031AM			
CN9400	1-573-301-21	CONNECTOR, BOARD TO BOARD 20P				IC9408	8-759-830-08	IC NJM2068V-TE2			
CN9401	1-573-301-21	CONNECTOR, BOARD TO BOARD 20P				IC9409	8-759-830-08	IC NJM2068V-TE2			
CN9402	1-564-511-11	PLUG, CONNEC2TOR		8P		IC9410	8-759-830-08	IC NJM2068V-TE2			
						IC9411	8-759-830-08	IC NJM2068V-TE2			
						IC9413	8-759-278-58	IC NJM4558V-TE2			
						IC9414	8-759-278-58	IC NJM4558V-TE2			



REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
IC9415	8-759-278-58	IC NJM4558V-TE2				R9419	1-216-839-11	RES-CHIP	33K	5%	1/10W
IC9416	8-759-278-58	IC NJM4558V-TE2				R9420	1-216-821-11	RES-CHIP	1K	5%	1/10W
IC9420	8-759-830-08	IC NJM2068V-TE2				R9421	1-216-821-11	RES-CHIP	1K	5%	1/10W
IC9422	8-759-641-26	IC NJM2391DL1-33(TE1)				R9422	1-216-818-11	RES-CHIP	560	5%	1/10W
						R9423	1-216-809-11	RES-CHIP	100	5%	1/10W
	COIL										
L9401	1-469-555-21	INDUCTOR	10μH			R9424	1-216-809-11	RES-CHIP	100	5%	1/10W
						R9425	1-216-833-11	RES-CHIP	10K	5%	1/10W
						R9426	1-216-821-11	RES-CHIP	1K	5%	1/10W
	TRANSISTOR					R9428	1-216-809-11	RES-CHIP	100	5%	1/10W
Q9400	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR				R9429	1-216-825-11	RES-CHIP	2.2K	5%	1/10W
Q9401	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR									
Q9402	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR				R9430	1-216-821-11	RES-CHIP	1K	5%	1/10W
Q9403	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR				R9431	1-216-825-11	RES-CHIP	2.2K	5%	1/10W
Q9405	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR				R9432	1-216-815-11	RES-CHIP	330	5%	1/10W
						R9433	1-216-825-11	RES-CHIP	2.2K	5%	1/10W
Q9406	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR				R9434	1-216-833-11	RES-CHIP	10K	5%	1/10W
Q9407	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR									
Q9408	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR				R9435	1-216-825-11	RES-CHIP	2.2K	5%	1/10W
Q9411	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR				R9436	1-216-809-11	RES-CHIP	100	5%	1/10W
Q9412	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR				R9437	1-216-809-11	RES-CHIP	100	5%	1/10W
						R9438	1-216-815-11	RES-CHIP	330	5%	1/10W
Q9413	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR				R9439	1-216-815-11	RES-CHIP	330	5%	1/10W
Q9414	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR									
Q9415	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR				R9440	1-216-817-11	RES-CHIP	470	5%	1/10W
Q9416	8-729-028-28	TRANSISTOR 2SK2036(TE85L)				R9441	1-216-829-11	RES-CHIP	4.7K	5%	1/10W
Q9417	8-729-028-28	TRANSISTOR 2SK2036(TE85L)				R9442	1-218-700-11	METAL CHIP	2.2K	0.50%	1/16W
						R9443	1-218-692-11	METAL CHIP	1K	0.50%	1/16W
						R9444	1-216-837-11	RES-CHIP	22K	5%	1/10W
	RESISTOR										
R9400	1-216-841-11	RES-CHIP	47K	5%	1/10W	R9446	1-216-821-11	RES-CHIP	1K	5%	1/10W
R9401	1-216-809-11	RES-CHIP	100	5%	1/10W	R9447	1-216-821-11	RES-CHIP	1K	5%	1/10W
R9402	1-216-833-11	RES-CHIP	10K	5%	1/10W	R9448	1-216-818-11	RES-CHIP	560	5%	1/10W
R9403	1-216-864-11	SHORT CHIP	0			R9449	1-216-823-11	RES-CHIP	1.5K	5%	1/10W
R9404	1-216-833-11	RES-CHIP	10K	5%	1/10W	R9450	1-216-823-11	RES-CHIP	1.5K	5%	1/10W
R9405	1-216-821-11	RES-CHIP	1K	5%	1/10W	R9451	1-218-700-11	METAL CHIP	2.2K	0.50%	1/16W
R9406	1-216-837-11	RES-CHIP	22K	5%	1/10W	R9452	1-218-700-11	METAL CHIP	2.2K	0.50%	1/16W
R9407	1-216-821-11	RES-CHIP	1K	5%	1/10W	R9453	1-216-833-11	RES-CHIP	10K	5%	1/10W
R9408	1-216-821-11	RES-CHIP	1K	5%	1/10W	R9454	1-218-700-11	METAL CHIP	2.2K	0.50%	1/16W
R9410	1-216-825-11	RES-CHIP	2.2K	5%	1/10W	R9455	1-218-700-11	METAL CHIP	2.2K	0.50%	1/16
R9411	1-216-809-11	RES-CHIP	100	5%	1/10W	R9456	1-216-833-11	RES-CHIP	10K	5%	1/10W
R9412	1-216-823-11	RES-CHIP	1.5K	5%	1/10W	R9457	1-216-833-11	RES-CHIP	10K	5%	1/10W
R9413	1-216-825-11	RES-CHIP	2.2K	5%	1/10W	R9458	1-216-839-11	RES-CHIP	33K	5%	1/10W
R9414	1-216-823-11	RES-CHIP	1.5K	5%	1/10W	R9459	1-218-724-11	METAL CHIP	22K	0.50%	1/16W
R9415	1-216-821-11	RES-CHIP	1K	5%	1/10W	R9460	1-218-724-11	METAL CHIP	22K	0.50%	1/16W
R9416	1-216-825-11	RES-CHIP	2.2K	5%	1/10W	R9461	1-218-724-11	METAL CHIP	22K	0.50%	1/16W
R9417	1-216-809-11	RES-CHIP	100	5%	1/10W	R9462	1-218-724-11	METAL CHIP	22K	0.50%	1/16W
R9418	1-216-809-11	RES-CHIP	100	5%	1/10W	R9463	1-218-716-11	METAL CHIP	10K	0.50%	1/16W
						R9464	1-218-716-11	METAL CHIP	10K	0.50%	1/16W



REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
R9465	1-218-716-11	METAL CHIP	10K	0.50%	1/16W	R9541	1-216-827-11	RES-CHIP	3.3K	5%	1/10W
R9466	1-218-716-11	METAL CHIP	10K	0.50%	1/16W	R9542	1-218-714-11	METAL CHIP	8.2K	0.50%	1/16W
R9467	1-218-700-11	METAL CHIP	2.2K	0.50%	1/16W	R9545	1-216-839-11	RES-CHIP	33K	5%	1/10W
R9468	1-218-700-11	METAL CHIP	2.2K	0.50%	1/16W	R9546	1-218-720-11	METAL CHIP	15K	0.50%	1/16W
R9469	1-218-700-11	METAL CHIP	2.2K	0.50%	1/16W	R9548	1-218-740-11	METAL CHIP	100K	0.50%	1/16W
R9470	1-218-700-11	METAL CHIP	2.2K	0.50%	1/16W	R9549	1-218-722-11	METAL CHIP	18K	0.50%	1/16W
R9471	1-218-724-11	METAL CHIP	22K	0.50%	1/16W	R9550	1-216-837-11	RES-CHIP	22K	5%	1/10W
R9472	1-218-724-11	METAL CHIP	22K	0.50%	1/16W	R9551	1-216-809-11	RES-CHIP	100	5%	1/10W
R9473	1-218-724-11	METAL CHIP	22K	0.50%	1/16W	R9553	1-216-821-11	RES-CHIP	1K	5%	1/10W
R9474	1-218-724-11	METAL CHIP	22K	0.50%	1/16W	R9554	1-216-821-11	RES-CHIP	1K	5%	1/10W
R9475	1-218-716-11	METAL CHIP	10K	0.50%	1/16W	R9555	1-216-833-11	RES-CHIP	10K	5%	1/10W
R9476	1-218-716-11	METAL CHIP	10K	0.50%	1/16W	R9556	1-216-821-11	RES-CHIP	1K	5%	1/10W
R9477	1-218-716-11	METAL CHIP	10K	0.50%	1/16W	R9557	1-216-821-11	RES-CHIP	1K	5%	1/10W
R9478	1-218-716-11	METAL CHIP	10K	0.50%	1/16W	R9558	1-216-821-11	RES-CHIP	1K	5%	1/10W
R9479	1-218-700-11	METAL CHIP	2.2K	0.50%	1/16W	R9559	1-216-821-11	RES-CHIP	1K	5%	1/10W
R9480	1-218-700-11	METAL CHIP	2.2K	0.50%	1/16W	R9565	1-216-833-11	RES-CHIP	10K	5%	1/10W
R9481	1-218-700-11	METAL CHIP	2.2K	0.50%	1/16W	R9566	1-216-833-11	RES-CHIP	10K	5%	1/10W
R9482	1-218-700-11	METAL CHIP	2.2K	0.50%	1/16W	R9567	1-216-833-11	RES-CHIP	10K	5%	1/10W
R9483	1-218-724-11	METAL CHIP	22K	0.50%	1/16W	R9568	1-216-864-11	SHORT CHIP	0		
R9484	1-218-724-11	METAL CHIP	22K	0.50%	1/16W	R9569	1-216-864-11	SHORT CHIP	0		
R9485	1-218-724-11	METAL CHIP	22K	0.50%	1/16W	R9570	1-216-864-11	SHORT CHIP	0		
R9486	1-218-716-11	METAL CHIP	10K	0.50%	1/16W	R9571	1-216-864-11	SHORT CHIP	0		
R9487	1-218-724-11	METAL CHIP	22K	0.50%	1/16W	R9572	1-216-833-11	RES-CHIP	10K	5%	1/10W
R9488	1-218-716-11	METAL CHIP	10K	0.50%	1/16W	R9573	1-216-833-11	RES-CHIP	10K	5%	1/10W
R9489	1-218-716-11	METAL CHIP	10K	0.50%	1/16W	R9574	1-216-797-11	RES-CHIP	10	5%	1/10W
R9490	1-218-716-11	METAL CHIP	10K	0.50%	1/16W	R9575	1-216-797-11	RES-CHIP	10	5%	1/10W
R9494	1-216-855-11	RES-CHIP	680K	5%	1/10W	RESISTOR BRIDGE					
R9495	1-216-853-11	RES-CHIP	470K	5%	1/10W	RB9400	1-233-576-11	RES, CHIP NETWORK	100		
R9496	1-216-853-11	RES-CHIP	470K	5%	1/10W	RB9401	1-233-576-11	RES, CHIP NETWORK	100		
R9497	1-216-855-11	RES-CHIP	680K	5%	1/10W	RB9402	1-233-576-11	RES, CHIP NETWORK	100		
R9502	1-216-829-11	RES-CHIP	4.7K	5%	1/10W	VARISTOR					
R9503	1-216-845-11	RES-CHIP	100K	5%	1/10W	VD9404	1-804-499-21	VARISTOR, CHIP			
R9504	1-216-829-11	RES-CHIP	4.7K	5%	1/10W	VD9405	1-804-499-21	VARISTOR, CHIP			
R9505	1-216-843-11	RES-CHIP	68K	5%	1/10W	VD9406	1-804-499-21	VARISTOR, CHIP			
R9509	1-216-843-11	RES-CHIP	68K	5%	1/10W	VD9407	1-804-499-21	VARISTOR, CHIP			
R9510	1-216-829-11	RES-CHIP	4.7K	5%	1/10W	CRYSTAL					
R9511	1-216-845-11	RES-CHIP	100K	5%	1/10W	X9401	1-767-922-11	VIBRATOR, CERAMIC			
R9512	1-216-829-11	RES-CHIP	4.7K	5%	1/10W						
R9515	1-216-821-11	RES-CHIP	1K	5%	1/10W						
R9516	1-216-821-11	RES-CHIP	1K	5%	1/10W						
R9520	1-216-821-11	RES-CHIP	1K	5%	1/10W						
R9527	1-216-821-11	RES-CHIP	1K	5%	1/10W						
R9539	1-218-706-11	METAL CHIP	3.9K	0.50%	1/16W						
R9540	1-218-702-11	METAL CHIP	2.7K	0.50%	1/16W						

NOTE: The components identified by shading and  mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifiés par un trame et une  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.



REF. NO.	PART NO.	DESCRIPTION	VALUES	REF. NO.	PART NO.	DESCRIPTION	VALUES
				C8035	1-162-927-11	CERAMIC CHIP	100pF 5% 50V
 *	A-1300-560-A	D BOARD, COMPLETE		C8036	1-126-968-11	ELECT	100μF 20% 50V
	4-382-854-11	SCREW (M3X10), P, SW (+)		C8037	1-126-968-11	ELECT	100μF 20% 50V
	7-682-952-09	SCREW#NAME? 3X16		C8040	1-115-349-51	CERAMIC	0.01μF 2KV
The high-voltage leads associated with the FBT on the D board are not included and must be ordered separately. Order the following leads when requesting this D board:				C8041	1-162-927-11	CERAMIC CHIP	100pF 5% 50V
	1-779-095-51	HV LEAD ASSY		C8042	1-162-927-11	CERAMIC CHIP	100pF 5% 50V
	1-900-260-40	CONNECTOR ASSY., MV		C8045	1-126-965-91	ELECT	22μF 20% 50V
CAPACITOR				C8046	1-126-965-91	ELECT	22μF 20% 50V
C8001	1-164-227-11	CERAMIC CHIP	0.022μF 10% 25V	C8047	1-162-974-11	CERAMIC CHIP	0.01μF 50V
C8002	1-162-927-11	CERAMIC CHIP	100pF 5% 50V	C8048	1-126-965-91	ELECT	22μF 20% 50V
C8003	1-162-927-11	CERAMIC CHIP	100pF 5% 50V	C8049	1-162-974-11	CERAMIC CHIP	0.01μF 50V
C8004	1-104-666-11	ELECT	220μF 20% 25V	C8050	1-126-965-91	ELECT	22μF 20% 50V
C8005	1-126-942-61	ELECT	1000μF 20% 25V	C8051	1-102-038-00	CERAMIC	0.001μF 500V
C8006	1-126-942-61	ELECT	1000μF 20% 25V	C8052	1-126-965-91	ELECT	22μF 20% 50V
C8007	1-162-927-11	CERAMIC CHIP	100pF 5% 50V	C8053	1-162-974-11	CERAMIC CHIP	0.01μF 50V
C8008	1-162-927-11	CERAMIC CHIP	100pF 5% 50V	C8054	1-162-974-11	CERAMIC CHIP	0.01μF 50V
C8009	1-162-970-11	CERAMIC CHIP	0.01μF 10% 25V	C8055	1-164-156-11	CERAMIC CHIP	0.1μF 25V
C8010	1-136-177-00	FILM	1μF 5% 50V	C8056	1-107-652-11	ELECT	10μF 20% 250V
C8011	1-162-927-11	CERAMIC CHIP	100pF 5% 50V	C8057	1-126-959-11	ELECT	0.47μF 20% 50V
C8012	1-162-970-11	CERAMIC CHIP	0.01μF 10% 25V	C8058	1-164-230-11	CERAMIC CHIP	220pF 5% 50V
C8013	1-162-927-11	CERAMIC CHIP	100pF 5% 50V	C8059	1-127-715-91	CERAMIC CHIP	0.22μF 10% 16V
C8014	1-104-665-11	ELECT	100μF 20% 25V	C8060	1-104-665-11	ELECT	100μF 20% 25V
C8015	1-126-969-11	ELECT	220μF 20% 50V	C8061	1-107-826-11	CERAMIC CHIP	0.1μF 10% 16V
C8016	1-104-665-11	ELECT	100μF 20% 25V	C8062	1-162-970-11	CERAMIC CHIP	0.01μF 10% 25V
C8017	1-162-964-11	CERAMIC CHIP	0.001μF 10% 50V	C8063	1-107-826-11	CERAMIC CHIP	0.1μF 10% 16V
C8018	1-126-964-11	ELECT	10μF 20% 50V	C8064	1-107-636-11	ELECT	10μF 20% 160V
C8019	1-162-927-11	CERAMIC CHIP	100pF 5% 50V	C8065	1-106-383-00	MYLAR	0.047μF 10% 200V
C8020	1-162-927-11	CERAMIC CHIP	100pF 5% 50V	C8066	1-162-970-11	CERAMIC CHIP	0.01μF 10% 25V
C8023	1-106-220-00	MYLAR	0.1μF 10% 100V	C8067	1-104-665-11	ELECT	100μF 20% 25V
C8024	1-164-227-11	CERAMIC CHIP	0.022μF 10% 25V	C8068	1-162-318-11	CERAMIC	0.001μF 10% 500V
C8025	1-126-968-11	ELECT	100μF 20% 50V	C8069	1-162-970-11	CERAMIC CHIP	0.01μF 10% 25V
C8026	1-126-968-11	ELECT	100μF 20% 50V	C8070	1-126-964-11	ELECT	10μF 20% 50V
C8028	1-126-968-11	ELECT	100μF 20% 50V	C8071	1-126-964-11	ELECT	10μF 20% 50V
C8029	1-126-968-11	ELECT	100μF 20% 50V	C8072	1-126-964-11	ELECT	10μF 20% 50V
C8031	1-107-636-11	ELECT	10μF 20% 160V	C8073	1-162-970-11	CERAMIC CHIP	0.01μF 10% 25V
C8032	1-126-968-11	ELECT	100μF 20% 50V	C8074	1-104-665-11	ELECT	100μF 20% 25V
C8033	1-126-968-11	ELECT	100μF 20% 50V	C8075	1-162-970-11	CERAMIC CHIP	0.01μF 10% 25V
C8034	1-162-927-11	CERAMIC CHIP	100pF 5% 50V	C8076	1-128-551-11	ELECT	22μF 20% 25V
				C8077	1-162-970-11	CERAMIC CHIP	0.01μF 10% 25V
				C8078	1-115-416-11	CERAMIC CHIP	0.001μF 5% 25V
				C8079	1-126-964-11	ELECT	10μF 20% 50V
				C8080	1-126-964-11	ELECT	10μF 20% 50V
				C8081	1-115-416-11	CERAMIC CHIP	0.001μF 5% 25V
				C8082	1-165-176-11	CERAMIC CHIP	0.047μF 10% 16V

NOTE: The components identified by shading and  mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifiés par un trame et une  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.



REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
C8083	1-130-495-00	MYLAR	0.1μF	5%	50V	C8132	1-126-927-11	ELECT	2200μF	20%	10V
C8084	1-130-992-11	FILM	0.022μF	5%	50V	C8133	1-107-649-11	ELECT	2.2μF	20%	250V
C8085	1-162-924-11	CERAMIC CHIP	56pF	5%	50V	C8135	1-117-813-11	FILM	0.75μF	5%	250V
C8086	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C8136	1-130-495-00	MYLAR	0.1μF	5%	50V
C8087	1-126-960-11	ELECT	1μF	20%	50V	C8137	1-126-927-11	ELECT	2200μF	20%	10V
C8088	1-126-964-11	ELECT	10μF	20%	50V	C8138	1-162-964-11	CERAMIC CHIP	0.001μF	10%	50V
C8089	1-162-134-11	CERAMIC	470pF	10%	2KV	C8139	1-126-964-11	ELECT	10μF	20%	50V
C8090	1-126-960-11	ELECT	1μF	20%	50V	C8140	1-102-030-00	CERAMIC	330pF	10%	500V
C8091	1-104-665-11	ELECT	100μF	20%	25V	C8141	1-162-927-11	CERAMIC CHIP	100pF	5%	50V
C8092	1-117-640-11	FILM	6800pF	3%	1.2KV	C8142	1-117-664-11	FILM	0.27μF	5%	250V
C8093	1-107-648-91	ELECT	100μF	20%	160V	C8143	1-109-889-11	ELECT	1μF	20%	50V
C8094	1-126-947-11	ELECT	47μF	20%	25V	C8145	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C8095	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C8146	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C8096	1-136-684-51	MYLAR	0.0022μF	10%	100V	C8153	1-126-960-11	ELECT	1μF	20%	50V
C8097	1-162-131-11	CERAMIC	220pF	10%	2KV	C8154	1-126-947-11	ELECT	47μF	20%	16V
C8098	1-162-131-11	CERAMIC	220pF	10%	2KV	C8155	1-126-947-11	ELECT	47μF	20%	16V
C8099	1-115-416-11	CERAMIC CHIP	0.001μF	5%	25V	C8156	1-107-636-11	ELECT	10μF	20%	160V
C8100	1-104-665-11	ELECT	100μF	20%	25V	C8158	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C8102	1-162-318-11	CERAMIC	0.001μF	10%	500V	C8159	1-106-383-00	MYLAR	0.047μF	10%	200V
C8103	1-126-964-11	ELECT	10μF	20%	50V	C8160	1-127-715-91	CERAMIC CHIP	0.22μF	10%	16V
C8104	1-162-965-11	CERAMIC CHIP	0.0015μF	10%	50V	C8162	1-162-318-11	CERAMIC	0.001μF	10%	500V
C8105	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	C8163	1-126-960-11	ELECT	1μF	20%	50V
C8106	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	C8165	1-126-965-91	ELECT	22μF	20%	50V
C8107	1-136-187-11	MYLAR	0.047μF	10%	250V	CONNECTOR					
C8108	1-126-964-11	ELECT	10μF	20%	50V	* CN8003	1-691-135-11	PIN,CONNECTOR (PC BOARD)	4P		
C8109	1-162-924-11	CERAMIC CHIP	56pF	5%	50V	* CN8006	1-564-506-11	PLUG,CONNECTOR	3P		
C8110	1-126-960-11	ELECT	1μF	20%	50V	* CN8007	1-564-506-11	PLUG,CONNECTOR	3P		
C8111	1-126-960-11	ELECT	1μF	20%	50V	* CN8008	1-564-506-11	PLUG,CONNECTOR	3P		
C8113	1-130-495-00	MYLAR	0.1μF	5%	50V	* CN8009	1-564-506-11	PLUG,CONNECTOR	3P		
C8114	1-125-473-11	ELECT(BLOCK)	1000μF	20%	160V	* CN8010	1-564-507-11	PLUG,CONNECTOR	4P		
C8115	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	* CN8011	1-564-507-11	PLUG,CONNECTOR	4P		
C8116	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	* CN8012	1-564-507-11	PLUG,CONNECTOR	4P		
C8117	1-162-318-11	CERAMIC	0.001μF	10%	500V	CN8013	1-779-092-11	PIN,CONNECTOR (PC BOARD)	10P		
C8118	1-136-189-00	MYLAR	0.1μF	10%	250V	* CN8015	1-506-371-00	PIN,CONNECTOR	2P		
C8120	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	* CN8016	1-564-507-11	PLUG,CONNECTOR	4P		
C8121	1-115-349-51	CERAMIC	0.01μF		2KV	* CN8018	1-580-689-11	PIN,CONNECTOR (PC BOARD)	4P		
C8122	1-126-934-11	ELECT	220μF	20%	16V	* CN8019	1-580-689-11	PIN,CONNECTOR (PC BOARD)	4P		
C8123	1-107-444-11	CERAMIC	100pF	10%	2KV	* CN8020	1-580-689-11	PIN,CONNECTOR (PC BOARD)	4P		
 C8124	1-117-642-11	FILM	8200pF	3%	1.2KV	* CN8022	1-564-510-11	PLUG,CONNECTOR	7P		
C8125	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	* CN8023	1-564-507-11	PLUG,CONNECTOR	4P		
C8126	1-106-357-00	MYLAR	0.0039μF	20%	200V	* CN8025	1-779-890-11	CONNECTOR, BOARD TO BOARD	10P		
C8127	1-126-942-61	ELECT	1000μF	20%	25V	CN8026	1-573-298-21	CONNECTOR, BOARD TO BOARD	20P		
C8129	1-137-150-11	MYLAR	0.01μF	5%	50V	CN8027	1-573-298-21	CONNECTOR, BOARD TO BOARD	20P		
C8131	1-128-582-11	ELECT	10μF	20%	100V						



REF. NO.	PART NO.	DESCRIPTION	VALUES	REF. NO.	PART NO.	DESCRIPTION	VALUES
* CN8028	1-564-507-11	PLUG,CONNECTOR	4P	FERRITE BEAD			
* CN8029	1-564-510-11	PLUG,CONNECTOR	7P	FB8001	1-410-397-21	FERRITE	1.1μH
* CN8030	1-564-510-11	PLUG,CONNECTOR	7P	FB8002	1-410-397-21	FERRITE	1.1μH
* CN8031	1-779-890-11	CONNECTOR, BOARD TO BOARD 10P		FB8005	1-469-869-21	FERRITE	0μH
DIODE				FB8006	1-469-869-21	FERRITE	0μH
D8001	8-719-109-89	DIODE MTZJ-T-77-5.6B		FB8014	1-469-869-21	FERRITE	0μH
D8002	8-719-110-53	DIODE MTZJ-T-77-20B		FB8015	1-469-869-21	FERRITE	0μH
D8003	8-719-924-13	DIODE MTZJ-T-77-22B		FB8016	1-469-869-21	FERRITE	0μH
D8004	8-719-908-03	DIODE GP08DPKG23		FB8017	1-469-869-21	FERRITE	0μH
D8005	8-719-988-61	DIODE 1SS355TE-17		FB8018	1-469-869-21	FERRITE	0μH
D8006	8-719-988-61	DIODE 1SS355TE-17		FB8021	1-410-397-21	FERRITE	1.1μH
D8008	8-719-988-61	DIODE 1SS355TE-17		FB8022	1-410-396-41	FERRITE	0.45μH
D8010	8-719-988-61	DIODE 1SS355TE-17		FB8023	1-410-396-41	FERRITE	0.45μH
D8011	8-719-988-61	DIODE 1SS355TE-17		IC			
D8012	8-719-988-61	DIODE 1SS355TE-17		IC8001	8-749-019-08	IC STK392-560	
D8013	8-719-109-85	DIODE MTZJ-T-77-5.1B		IC8002	8-749-019-08	IC STK392-560	
D8014	8-719-109-85	DIODE MTZJ-T-77-5.1B		IC8003	8-759-593-33	IC LA78045	
D8015	8-719-988-61	DIODE 1SS355TE-17		IC8004	8-759-701-79	IC NJM7812FA	
D8016	8-719-988-61	DIODE 1SS355TE-17		IC8005	8-759-585-82	IC BA9759F-E2	
D8019	8-719-988-61	DIODE 1SS355TE-17		IC8006	8-759-700-07	IC NJM2903M-TE2	
D8020	8-719-988-61	DIODE 1SS355TE-17		IC8007	8-759-700-07	IC NJM2903M-TE2	
D8022	8-719-988-61	DIODE 1SS355TE-17		IC8008	8-759-585-82	IC BA9759F-E2	
D8023	8-719-988-61	DIODE 1SS355TE-17		IC8009	8-759-803-42	IC LA6500P-FA	
D8024	8-719-110-41	DIODE MTZJ-T-77-15B		IC8010	8-759-471-81	IC PQ05RD11	
D8025	8-719-988-61	DIODE 1SS355TE-17		IC8012	8-759-701-01	IC NJM2904M(Te2)	
D8026	8-719-109-89	DIODE MTZJ-T-77-5.6B		COIL			
D8027	8-719-028-45	DIODE D2L20U-TA		L8001	1-412-533-21	INDUCTOR	47μH
D8028	8-719-110-41	DIODE MTZJ-T-77-15B		L8002	1-412-533-21	INDUCTOR	47μH
D8029	8-719-027-43	DIODE S2L20μF		L8003	1-412-525-31	INDUCTOR	10μH
D8030	8-719-027-43	DIODE S2L20μF		L8004	1-412-533-21	INDUCTOR	47μH
D8032	8-719-302-43	DIODE RGP10GPKG23		L8005	1-412-533-21	INDUCTOR	47μH
D8033	8-719-028-72	DIODE RGP02-17EL-6433		L8006	1-412-525-31	INDUCTOR	10μH
D8036	8-719-110-41	DIODE MTZJ-T-77-15B		L8007	1-412-533-21	INDUCTOR	47μH
D8037	8-719-028-45	DIODE D2L20U-F		L8008	1-412-533-21	INDUCTOR	47μH
D8038	8-719-302-43	DIODE RGP10GPKG23		L8009	1-412-525-31	INDUCTOR	10μH
D8039	8-719-028-72	DIODE RGP02-17PKG23		L8010	1-414-187-11	INDUCTOR	47μH
D8042	8-719-988-61	DIODE 1SS355TE-17		L8011	1-414-856-11	INDUCTOR	10μH
D8043	8-719-988-61	DIODE 1SS355TE-17		L8012	1-414-187-11	INDUCTOR	47μH
D8045	8-719-908-03	DIODE GP08DPKG23		L8013	1-414-856-11	INDUCTOR	10μH
D8047	8-719-988-61	DIODE 1SS355TE-17		L8014	1-414-189-31	INDUCTOR	100μH
D8050	8-719-988-61	DIODE 1SS355TE-17		L8015	1-414-189-31	INDUCTOR	100μH
D8051	8-719-988-61	DIODE 1SS355TE-17					
D8052	8-719-988-61	DIODE 1SS355TE-17					

NOTE: The components identified by shading and  mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifiés par un trame et une  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.



REF. NO.	PART NO.	DESCRIPTION	VALUES	REF. NO.	PART NO.	DESCRIPTION	VALUES
L8016	1-412-537-31	INDUCTOR	100μH	Q8021	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
L8017	1-414-856-11	INDUCTOR	10μH	Q8022	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
L8018	1-406-667-11	INDUCTOR	220μH	Q8023	8-729-048-47	TRANSISTOR 2SC2688(5)-LK	
L8019	1-456-109-11	COIL,HORIZONTAL LINEARITY(HLC)		Q8024	6-550-144-01	TRANSISTOR 2SC5778-YB	
L8020	1-412-525-31	INDUCTOR	10μH	Q8027	6-550-153-01	TRANSISTOR FQpF12P20XDTU	
L8021	1-406-659-11	INDUCTOR	10μH	Q8028	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
L8022	1-412-552-11	INDUCTOR	2.2MH	Q8029	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
L8025	1-414-856-11	INDUCTOR	10μH	Q8030	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR	
L8026	1-414-856-11	INDUCTOR	10μH	Q8031	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
L8028	1-414-187-11	INDUCTOR	47μH	Q8035	6-550-153-01	TRANSISTOR FQpF12P20XDTU	
L8029	1-414-187-11	INDUCTOR	47μH	Q8039	8-729-048-47	TRANSISTOR 2SC2688(5)-LK	
L8030	1-414-187-11	INDUCTOR	47μH	Q8041	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR	
L8031	1-414-187-11	INDUCTOR	47μH	Q8042	8-729-048-47	TRANSISTOR 2SC2688(5)-LK	
L8032	1-414-856-11	INDUCTOR	10μH	Q8043	6-550-144-01	TRANSISTOR 2SC5778-YB	
L8033	1-414-856-11	INDUCTOR	10μH	Q8044	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
				Q8101	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR	
NEON LAMP				RESISTOR			
NL8001	1-517-778-21	LAMP, NEON		R8001	1-216-825-11	RES-CHIP	2.2K 5% 1/10W
				R8002	1-216-809-11	RES-CHIP	100 5% 1/10W
				R8003	1-216-809-11	RES-CHIP	100 5% 1/10W
				R8004	1-216-809-11	RES-CHIP	100 5% 1/10W
				R8005	1-215-875-11	METAL OXIDE	10K 5% 1W
				R8007	1-216-809-11	RES-CHIP	100 5% 1/10W
				R8008	1-216-809-11	RES-CHIP	100 5% 1/10W
				R8009	1-216-809-11	RES-CHIP	100 5% 1/10W
				R8010	1-260-131-11	CARBON	470K 5% 1/2W
				R8011	1-216-829-11	RES-CHIP	4.7K 5% 1/10W
				R8012	1-216-829-11	RES-CHIP	4.7K 5% 1/10W
				R8013	1-218-710-11	METAL CHIP	5.6K 0.50% 1/16W
				R8014	1-218-710-11	METAL CHIP	5.6K 0.50% 1/16W
				R8015	1-216-837-11	RES-CHIP	22K 5% 1/10W
				R8016	1-216-829-11	RES-CHIP	4.7K 5% 1/10W
				R8017	1-216-829-11	RES-CHIP	4.7K 5% 1/10W
				R8018	1-216-821-11	RES-CHIP	1K 5% 1/10W
				R8019	1-218-712-11	METAL CHIP	6.8K 0.50% 1/16W
				R8020	1-216-829-11	RES-CHIP	4.7K 5% 1/10W
				 R8021	1-216-833-11	RES-CHIP	10K 5% 1/10W
				R8022	1-216-839-11	RES-CHIP	33K 5% 1/10W
				R8023	1-216-833-11	RES-CHIP	10K 5% 1/10W
				R8024	1-216-833-11	RES-CHIP	10K 5% 1/10W
				R8025	1-216-829-11	RES-CHIP	4.7K 5% 1/10W
				R8026	1-216-829-11	RES-CHIP	4.7K 5% 1/10W
TRANSISTOR							
Q8001	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR					
Q8002	8-729-046-80	TRANSISTOR 2SC4634LS-CB11					
Q8003	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR					
Q8004	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR					
Q8007	8-729-046-80	TRANSISTOR 2SC4634LS-CB11					
Q8008	8-729-207-89	TRANSISTOR 2SA1358-Y					
Q8009	8-729-207-82	TRANSISTOR 2SC3421-Y					
Q8010	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR					
Q8011	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR					
Q8014	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR					
Q8015	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR					
Q8016	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR					
Q8019	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR					
Q8020	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR					

NOTE: The components identified by shading and  mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifiés par un trame et une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.



REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
R8029	1-216-829-11	RES-CHIP	4.7K	5%	1/10W	R8078	1-214-808-11	METAL	4.7	1%	1/2W
R8030	1-215-903-11	METAL OXIDE	68K	5%	2W	R8079	1-214-808-11	METAL	4.7	1%	1/2W
R8031	1-216-829-11	RES-CHIP	4.7K	5%	1/10W	R8080	1-216-353-00	METAL OXIDE	2.2	5%	1W
R8032	1-216-821-11	RES-CHIP	1K	5%	1/10W	R8081	1-214-808-11	METAL	4.7	1%	1/2W
R8033	1-216-833-11	RES-CHIP	10K	5%	1/10W	R8082	1-214-808-11	METAL	4.7	1%	1/2W
R8034	1-216-833-11	RES-CHIP	10K	5%	1/10W	R8083	1-216-821-11	RES-CHIP	1K	5%	1/10W
R8035	1-218-692-11	METAL CHIP	1K	0.50%	1/16W	R8084	1-216-833-11	RES-CHIP	10K	5%	1/10W
R8036	1-214-800-11	METAL	2.2	1%	1/2W	R8085	1-214-808-11	METAL	4.7	1%	1/2W
R8037	1-215-903-11	METAL OXIDE	68K	5%	2W	R8086	1-214-808-11	METAL	4.7	1%	1/2W
R8038	1-216-809-11	RES-CHIP	100	5%	1/10W	 R8087	1-249-385-11	CARBON	2.2	5%	1/4W
R8039	1-214-800-11	METAL	2.2	1%	1/2W	 R8088	1-249-385-11	CARBON	2.2	5%	1/4W
R8040	1-215-913-11	METAL OXIDE	220	5%	3W	R8089	1-214-808-11	METAL	4.7	1%	1/2W
R8041	1-218-710-11	METAL CHIP	5.6K	0.50%	1/16W	R8090	1-214-808-11	METAL	4.7	1%	1/2W
R8042	1-216-826-11	RES-CHIP	2.7K	5%	1/10W	R8091	1-214-808-11	METAL	4.7	1%	1/2W
R8043	1-218-740-11	METAL CHIP	100K	0.50%	1/16W	R8092	1-214-808-11	METAL	4.7	1%	1/2W
R8044	1-218-712-11	METAL CHIP	6.8K	0.50%	1/16W	R8093	1-214-808-11	METAL	4.7	1%	1/2W
R8045	1-214-808-11	METAL	4.7	1%	1/2W	R8094	1-214-808-11	METAL	4.7	1%	1/2W
R8046	1-214-808-11	METAL	4.7	1%	1/2W	R8095	1-216-801-11	RES-CHIP	22	5%	1/10W
R8047	1-215-857-71	METAL OXIDE	10	5%	1W	R8096	1-216-801-11	RES-CHIP	22	5%	1/10W
R8048	1-216-833-11	RES-CHIP	10K	5%	1/10W	R8097	1-214-808-11	METAL	4.7	1%	1/2W
R8050	1-216-833-11	RES-CHIP	10K	5%	1/10W	R8098	1-214-808-11	METAL	4.7	1%	1/2W
R8051	1-214-808-11	METAL	4.7	1%	1/2W	R8100	1-216-475-11	METAL OXIDE	120	5%	3W
R8053	1-214-808-11	METAL	4.7	1%	1/2W	R8101	1-216-475-11	METAL OXIDE	120	5%	3W
R8055	1-218-748-11	METAL CHIP	220K	0.50%	1/16W	R8102	1-218-734-11	METAL CHIP	56K	0.50%	1/16W
R8056	1-216-829-11	RES-CHIP	4.7K	5%	1/10W	R8103	1-216-816-11	RES-CHIP	390	5%	1/10W
R8057	1-216-829-11	RES-CHIP	4.7K	5%	1/10W	R8104	1-216-828-11	RES-CHIP	3.9K	5%	1/10W
R8058	1-216-809-11	RES-CHIP	100	5%	1/10W	R8105	1-214-808-11	METAL	4.7	1%	1/2W
R8059	1-214-808-11	METAL	4.7	1%	1/2W	R8106	1-214-808-11	METAL	4.7	1%	1/2W
R8060	1-214-808-11	METAL	4.7	1%	1/2W	R8109	1-216-813-11	RES-CHIP	220	5%	1/10W
R8061	1-216-392-11	METAL OXIDE	1.8	5%	3W	R8110	1-249-424-11	CARBON	3.9K	5%	1/4W
R8062	1-260-107-11	CARBON	4.7K	5%	1/2W	R8111	1-216-819-11	RES-CHIP	680	5%	1/10W
R8063	1-214-808-11	METAL	4.7	1%	1/2W	R8112	1-216-824-11	RES-CHIP	1.8K	5%	1/10W
R8064	1-214-808-11	METAL	4.7	1%	1/2W	R8113	1-216-475-11	METAL OXIDE	120	5%	3W
R8065	1-260-328-11	CARBON	1K	5%	1/2W	R8114	1-216-475-11	METAL OXIDE	120	5%	3W
R8066	1-214-808-11	METAL	4.7	1%	1/2W	R8115	1-216-475-11	METAL OXIDE	120	5%	3W
R8067	1-214-808-11	METAL	4.7	1%	1/2W	R8116	1-216-475-11	METAL OXIDE	120	5%	3W
R8068	1-216-809-11	RES-CHIP	100	5%	1/10W	R8117	1-216-833-11	RES-CHIP	10K	5%	1/10W
R8069	1-214-808-11	METAL	4.7	1%	1/2W	R8118	1-216-833-11	RES-CHIP	10K	5%	1/10W
R8070	1-214-808-11	METAL	4.7	1%	1/2W	R8119	1-216-833-11	RES-CHIP	10K	5%	1/10W
R8071	1-215-381-00	METAL	22	1%	1/4W	R8120	1-216-833-11	RES-CHIP	10K	5%	1/10W
R8073	1-214-808-11	METAL	4.7	1%	1/2W	R8121	1-216-809-11	RES-CHIP	100	5%	1/10W
R8075	1-214-808-11	METAL	4.7	1%	1/2W	R8123	1-216-821-11	RES-CHIP	1K	5%	1/10W
R8076	1-216-829-11	RES-CHIP	4.7K	5%	1/10W	R8124	1-249-377-11	CARBON	0.47	5%	1/4W
R8077	1-216-829-11	RES-CHIP	4.7K	5%	1/10W	R8125	1-216-816-11	RES-CHIP	390	5%	1/10W

NOTE: The components identified by shading and  mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifiés par un trame et une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.



REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
R8126	1-216-823-11	RES-CHIP	1.5K	5%	1/10W	R8173	1-216-845-11	RES-CHIP	100K	5%	1/10W
R8127	1-216-341-11	METAL OXIDE	0.22	5%	1W	R8174	1-249-425-11	CARBON	4.7K	5%	1/4W
R8128	1-216-845-11	RES-CHIP	100K	5%	1/10W	R8176	1-218-740-11	METAL CHIP	100K	0.50%	1/16W
R8129	1-216-825-11	RES-CHIP	2.2K	5%	1/10W	R8178	1-216-841-11	RES-CHIP	47K	5%	1/10W
R8130	1-216-825-11	RES-CHIP	2.2K	5%	1/10W	R8180	1-216-845-11	RES-CHIP	100K	5%	1/10W
R8131	1-216-833-11	RES-CHIP	10K	5%	1/10W	R8181	1-216-845-11	RES-CHIP	100K	5%	1/10W
R8132	1-216-833-11	RES-CHIP	10K	5%	1/10W	R8182	1-218-740-11	METAL CHIP	100K	0.50%	1/16W
R8133	1-215-923-00	METAL OXIDE	10K	5%	3W	R8183	1-218-740-11	METAL CHIP	100K	0.50%	1/16W
R8134	1-215-873-00	METAL OXIDE	4.7K	5%	1W	R8189	1-249-377-11	CARBON	0.47	5%	1/4W
R8135	1-215-923-00	METAL OXIDE	10K	5%	3W	R8190	1-215-429-00	METAL	2.2K	1%	1/4W
R8136	1-216-833-11	RES-CHIP	10K	5%	1/10W	R8191	1-215-415-00	METAL	560	1%	1/4W
R8137	1-218-740-11	METAL CHIP	100K	0.50%	1/16W	R8192	1-215-445-00	METAL	10K	1%	1/4W
R8138	1-216-833-11	RES-CHIP	10K	5%	1/10W	R8193	1-215-445-00	METAL	10K	1%	1/4W
R8139	1-216-827-11	RES-CHIP	3.3K	5%	1/10W	R8194	1-215-445-00	METAL	10K	1%	1/4W
R8140	1-216-833-11	RES-CHIP	10K	5%	1/10W	R8195	1-215-445-00	METAL	10K	1%	1/4W
R8141	1-216-827-11	RES-CHIP	3.3K	5%	1/10W	R8196	1-249-425-11	CARBON	4.7K	5%	1/4W
R8142	1-216-833-11	RES-CHIP	10K	5%	1/10W	R8198	1-215-445-00	METAL	10K	1%	1/4W
R8143	1-218-734-11	METAL CHIP	56K	0.50%	1/16W	R8201	1-249-397-11	CARBON	22	5%	1/4W
R8144	1-216-809-11	RES-CHIP	100	5%	1/10W	R8202	1-260-092-11	CARBON	270	5%	1/2W
R8145	1-218-716-11	METAL CHIP	10K	0.50%	1/16W	 R8205	1-249-377-11	CARBON	0.47	5%	1/4W
R8146	1-218-716-11	METAL CHIP	10K	0.50%	1/16W	R8206	1-249-377-11	CARBON	0.47	5%	1/4W
R8147	1-218-710-11	METAL CHIP	5.6K	0.50%	1/16W	R8208	1-260-288-11	CARBON	0.47	5%	1/2W
R8148	1-218-740-11	METAL CHIP	100K	0.50%	1/16W	R8209	1-216-833-11	RES-CHIP	10K	5%	1/10W
R8149	1-249-401-11	CARBON	47	5%	1/4W	R8210	1-216-809-11	RES-CHIP	100	5%	1/10W
R8150	1-218-740-11	METAL CHIP	100K	0.50%	1/16W	R8211	1-215-906-11	METAL OXIDE	15	5%	3W
R8151	1-218-692-11	METAL CHIP	1K	0.50%	1/16W	R8212	1-215-907-11	METAL OXIDE	22	5%	3W
R8152	1-218-716-11	METAL CHIP	10K	0.50%	1/16W	R8213	1-216-821-11	RES-CHIP	1K	5%	1/10W
R8153	1-218-692-11	METAL CHIP	1K	0.50%	1/16W	R8216	1-216-833-11	RES-CHIP	10K	5%	1/10W
R8154	1-218-728-11	METAL CHIP	33K	0.50%	1/16W	R8217	1-216-821-11	RES-CHIP	1K	5%	1/10W
R8155	1-215-469-00	METAL	100K	1%	1/4W	R8218	1-260-123-11	CARBON	100K	5%	1/2W
R8156	1-215-469-00	METAL	100K	1%	1/4W	 R8219	1-249-377-11	CARBON	0.47	5%	1/4W
R8157	1-218-738-11	METAL CHIP	82K	0.50%	1/16W	R8220	1-216-821-11	RES-CHIP	1K	5%	1/10W
R8159	1-216-833-11	RES-CHIP	10K	5%	1/10W	R8222	1-216-341-11	METAL OXIDE	0.22	5%	1W
R8161	1-216-845-11	RES-CHIP	100K	5%	1/10W	R8223	1-218-752-11	METAL CHIP	330K	0.50%	1/16W
R8162	1-249-377-11	CARBON	0.47	5%	1/4W	R8224	1-260-127-11	CARBON	220K	5%	1/2W
R8163	1-216-845-11	RES-CHIP	100K	5%	1/10W	 R8225	1-260-292-11	CARBON	1	5%	1/2W
R8164	1-218-734-11	METAL CHIP	56K	0.50%	1/16W	 R8228	1-260-314-11	CARBON	68	5%	1/2W
R8165	1-249-425-11	CARBON	4.7K	5%	1/4W	R8230	1-218-751-11	METAL CHIP	300K	0.50%	1/16W
R8166	1-218-716-11	METAL CHIP	10K	0.50%	1/16W	R8232	1-216-809-11	RES-CHIP	100	5%	1/10W
R8168	1-216-809-11	RES-CHIP	100	5%	1/10W	R8233	1-216-809-11	RES-CHIP	100	5%	1/10W
R8169	1-216-845-11	RES-CHIP	100K	5%	1/10W	R8234	1-216-809-11	RES-CHIP	100	5%	1/10W
R8170	1-218-712-11	METAL CHIP	6.8K	0.50%	1/16W	R8235	1-216-809-11	RES-CHIP	100	5%	1/10W
R8171	1-216-809-11	RES-CHIP	100	5%	1/10W	R8236	1-216-855-11	RES-CHIP	680K	5%	1/10W
 R8172	1-249-405-11	CARBON	100	5%	1/4W	R8237	1-216-855-11	RES-CHIP	680K	5%	1/10W

NOTE: The components identified by shading and  mark are critical for safety. Replace only with part number specified.

A component identified by this  symbol indicates that it has been carefully factory-selected to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.



REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
R8242	1-216-864-11	SHORT CHIP	0			C2006	1-164-156-11	CERAMIC CHIP	0.1μF		25V
R8243	1-216-809-11	RES-CHIP	100	5%	1/10W	C2007	1-126-964-11	ELECT	10μF	20%	50V
R8249	1-215-923-00	METAL OXIDE	10K	5%	3W	C2010	1-164-156-11	CERAMIC CHIP	0.1μF		25V
R8250	1-215-923-00	METAL OXIDE	10K	5%	3W	C2011	1-164-156-11	CERAMIC CHIP	0.1μF		25V
R8251	1-216-821-11	RES-CHIP	1K	5%	1/10W	C2012	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
R8253	1-216-816-11	RES-CHIP	390	5%	1/10W	C2014	1-164-156-11	CERAMIC CHIP	0.1μF		25V
R8254	1-216-823-11	RES-CHIP	1.5K	5%	1/10W	C2015	1-164-156-11	CERAMIC CHIP	0.1μF		25V
R8255	1-215-873-00	METAL OXIDE	4.7K	5%	1W	C2017	1-126-964-11	ELECT	10μF	20%	50V
R8256	1-249-401-11	CARBON	47	5%	1/4W	C2019	1-126-964-11	ELECT	10μF	20%	50V
R8258	1-216-833-11	RES-CHIP	10K	5%	1/10W	C2020	1-126-964-11	ELECT	10μF	20%	50V
R8259	1-216-809-11	RES-CHIP	100	5%	1/10W	C2022	1-126-964-11	ELECT	10μF	20%	50V
R8260	1-216-845-11	RES-CHIP	100K	5%	1/10W	C2024	1-126-933-11	ELECT	100μF	20%	16V
R8261	1-216-845-11	RES-CHIP	100K	5%	1/10W	C2025	1-164-156-11	CERAMIC CHIP	0.1μF		25V
R8262	1-216-845-11	RES-CHIP	100K	5%	1/10W	C2027	1-126-964-11	ELECT	10μF	20%	50V
R8263	1-216-845-11	RES-CHIP	100K	5%	1/10W	C2028	1-126-933-11	ELECT	100μF	20%	16V
TRANSFORMER						C2029	1-126-964-11	ELECT	10μF	20%	50V
T8001	1-437-708-11	TRANSFORMER, FERRITE (DFT)				C2031	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
T8002	1-437-739-11	TRANSFORMER, FERRITE (HDT)				C2032	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
T8003	1-437-401-11	TRANSFORMER, FERRITE (HOT)				C2033	1-126-933-11	ELECT	100μF	20%	16V
 T8004	1-437-399-21	TRANSFORMER, FERRITE (LOT)				C2034	1-162-917-11	CERAMIC CHIP	15pF	5%	50V
 T8005	1-453-285-51	FBT ASSY NX-4006//X4P4				C2035	1-162-917-11	CERAMIC CHIP	15pF	5%	50V
T8006	1-437-739-11	TRANSFORMER, FERRITE (HDT)				C2036	1-164-156-11	CERAMIC CHIP	0.1μF		25V
THERMISTOR						C2037	1-164-156-11	CERAMIC CHIP	0.1μF		25V
TH8001	1-800-193-00	THERMISTOR				C2038	1-162-916-11	CERAMIC CHIP	12pF	5%	50V
VARIABLE RESISTOR						C2039	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
  VR8001	1-225-627-91	RES, VAR, ADJ, CERMET	2K			C2040	1-125-891-11	CERAMIC CHIP	0.47μF	10%	10V
  VR8002	1-225-630-91	RES, VAR, ADJ, CERMET	20K			C2041	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
						C2042	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
The M board is <u>not</u> field repairable. If service is required, use the following part number to order a complete replacement board. Data is provided for reference only.						C2043	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
* A-1300-646-A M BOARD, COMPLETE						C2044	1-164-315-11	CERAMIC CHIP	470pF	5%	50V
CAPACITOR						C2045	1-126-933-11	ELECT	100μF	20%	16V
C2001	1-162-917-11	CERAMIC CHIP	15pF	5%	50V	C2046	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C2002	1-126-933-11	ELECT	100μF	20%	16V	C2047	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C2003	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C2048	1-164-315-11	CERAMIC CHIP	470pF	5%	50V
C2004	1-164-227-11	CERAMIC CHIP	0.022μF	10%	25V	C2049	1-162-916-11	CERAMIC CHIP	12pF	5%	50V
C2005	1-162-964-11	CERAMIC CHIP	0.001μF	10%	50V	C2050	1-164-156-11	CERAMIC CHIP	0.1μF		25V
						C2051	1-125-837-91	CERAMIC CHIP	1μF	10%	6.3V
						C2052	1-125-891-11	CERAMIC CHIP	0.47μF	10%	10V
						C2053	1-125-891-11	CERAMIC CHIP	0.47μF	10%	10V
						C2054	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
						C2055	1-126-933-11	ELECT	100μF	20%	16V
						C2056	1-125-891-11	CERAMIC CHIP	0.47μF	10%	10V
						C2057	1-164-156-11	CERAMIC CHIP	0.1μF		25V
						C2058	1-126-963-11	ELECT	4.7μF	20%	50V



REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
C2059	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	C2108	1-126-933-11	ELECT	100μF	20%	16V
C2060	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	C2109	1-125-837-91	CERAMIC CHIP	1μF	10%	6.3V
C2061	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	C2111	1-126-964-11	ELECT	10μF	20%	50V
C2062	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C2112	1-126-964-11	ELECT	10μF	20%	50V
C2063	1-126-963-11	ELECT	4.7μF	20%	50V	C2113	1-126-964-11	ELECT	10μF	20%	50V
C2064	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C2114	1-126-964-11	ELECT	10μF	20%	50V
C2065	1-126-933-11	ELECT	100μF	20%	16V	C2115	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C2066	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C2116	1-126-933-11	ELECT	100μF	20%	16V
C2067	1-125-891-11	CERAMIC CHIP	0.47μF	10%	10V	C2117	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C2068	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C2120	1-126-964-11	ELECT	10μF	20%	50V
C2069	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	C2121	1-126-964-11	ELECT	10μF	20%	50V
C2070	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C2122	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C2071	1-126-963-11	ELECT	4.7μF	20%	50V	C2123	1-125-837-91	CERAMIC CHIP	1μF	10%	6.3V
C2072	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	C2124	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C2073	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C2126	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C2074	1-126-933-11	ELECT	100μF	20%	16V	C2130	1-126-933-11	ELECT	100μF	20%	16V
C2075	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	C2131	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C2076	1-125-891-11	CERAMIC CHIP	0.47μF	10%	10V	C2132	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C2077	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C2134	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C2078	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C2135	1-125-837-91	CERAMIC CHIP	1μF	10%	6.3V
C2079	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	C2200	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C2080	1-126-963-11	ELECT	4.7μF	20%	50V	C2201	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C2081	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	C2202	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C2082	1-125-891-11	CERAMIC CHIP	0.47μF	10%	10V	C2204	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C2083	1-125-891-11	CERAMIC CHIP	0.47μF	10%	10V	C2205	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C2084	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	C2206	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C2085	1-125-891-11	CERAMIC CHIP	0.47μF	10%	10V	C2207	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C2086	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C2208	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C2087	1-125-891-11	CERAMIC CHIP	0.47μF	10%	10V	C2209	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C2088	1-216-864-11	SHORT CHIP	0			C2210	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C2089	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C2211	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C2090	1-216-864-11	SHORT CHIP	0			C2212	1-126-933-11	ELECT	100μF	20%	16V
C2096	1-125-891-11	CERAMIC CHIP	0.47μF	10%	10V	C2213	1-126-947-11	ELECT	47μF	20%	25V
C2097	1-125-891-11	CERAMIC CHIP	0.47μF	10%	10V	C2214	1-126-933-11	ELECT	100μF	20%	16V
C2098	1-125-837-91	CERAMIC CHIP	1μF	10%	6.3V	C2215	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C2099	1-125-837-91	CERAMIC CHIP	1μF	10%	6.3V	C2216	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C2100	1-125-891-11	CERAMIC CHIP	0.47μF	10%	10V	C2217	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C2101	1-126-933-11	ELECT	100μF	20%	16V	C2218	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C2102	1-125-891-11	CERAMIC CHIP	0.47μF	10%	10V	C2219	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C2103	1-125-891-11	CERAMIC CHIP	0.47μF	10%	10V	C2220	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C2104	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C2221	1-162-917-11	CERAMIC CHIP	15pF	5%	50V
C2105	1-125-891-11	CERAMIC CHIP	0.47μF	10%	10V	C2222	1-162-917-11	CERAMIC CHIP	15pF	5%	50V
C2106	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C2223	1-125-837-91	CERAMIC CHIP	1μF	10%	6.3V
C2107	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C2224	1-115-156-11	CERAMIC CHIP	1μF		10V



REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
C2225	1-162-917-11	CERAMIC CHIP	15pF	5%	50V	C2322	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C2226	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C2323	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C2227	1-126-933-11	ELECT	100μF	20%	16V	C2324	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C2228	1-162-913-11	CERAMIC CHIP	8pF	0.50pF	50V	C2325	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C2229	1-162-913-11	CERAMIC CHIP	8pF	0.50pF	50V	C2326	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C2230	1-162-915-11	CERAMIC CHIP	10pF	0.50pF	50V	C2327	1-126-933-11	ELECT	100μF	20%	16V
C2231	1-125-837-91	CERAMIC CHIP	1μF	10%	6.3V	C2328	1-126-933-11	ELECT	100μF	20%	16V
C2232	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C2329	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C2233	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C2330	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C2234	1-126-933-11	ELECT	100μF	20%	16V	C2331	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C2235	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C2332	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C2236	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C2333	1-125-891-11	CERAMIC CHIP	0.47μF	10%	10V
C2237	1-162-917-11	CERAMIC CHIP	15pF	5%	50V	C2334	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C2238	1-126-933-11	ELECT	100μF	20%	16V	C2335	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C2239	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C2336	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C2240	1-126-933-11	ELECT	100μF	20%	16V	C2337	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C2241	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	C2338	1-125-891-11	CERAMIC CHIP	0.47μF	10%	10V
C2242	1-126-934-11	ELECT	220μF	20%	16V	C2339	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C2243	1-126-934-11	ELECT	220μF	20%	16V	C2340	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C2244	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	C2341	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C2245	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C2342	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C2246	1-126-947-11	ELECT	47μF	20%	25V	C2343	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C2247	1-162-975-11	CERAMIC CHIP	24pF	5%	50V	C2344	1-164-230-11	CERAMIC CHIP	220pF	5%	50V
C2248	1-162-975-11	CERAMIC CHIP	24pF	5%	50V	C2345	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C2249	1-164-360-11	CERAMIC CHIP	0.1μF		16V	C2346	1-164-230-11	CERAMIC CHIP	220pF	5%	50V
C2250	1-164-360-11	CERAMIC CHIP	0.1μF		16V	C2347	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C2251	1-164-392-11	CERAMIC CHIP	390pF	5%	50V	C2348	1-126-933-11	ELECT	100μF	20%	16V
C2300	1-162-968-11	CERAMIC CHIP	0.0047μF	10%	50V	C2349	1-162-968-11	CERAMIC CHIP	0.0047μF	10%	50V
C2301	1-126-933-11	ELECT	100μF	20%	16V	C2352	1-126-933-11	ELECT	100μF	20%	16V
C2302	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C2353	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C2305	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C2354	1-162-907-11	CERAMIC CHIP	2pF	0.25pF	50V
C2306	1-162-920-11	CERAMIC CHIP	27pF	5%	50V	C2355	1-164-245-11	CERAMIC CHIP	0.015μF	10%	25V
C2307	1-162-919-11	CERAMIC CHIP	22pF	5%	50V	C2358	1-126-935-11	ELECT	470μF	20%	6.3V
C2308	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C2359	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C2309	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C2361	1-126-933-11	ELECT	100μF	20%	16V
C2310	1-162-919-11	CERAMIC CHIP	22pF	5%	50V	C2362	1-126-933-11	ELECT	100μF	20%	16V
C2311	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C2370	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C2312	1-162-910-11	CERAMIC CHIP	5pF	0.25pF	50V	C2500	1-162-966-11	CERAMIC CHIP	0.0022μF	10%	50V
C2313	1-115-156-11	CERAMIC CHIP	1μF		10V	C2501	1-162-966-11	CERAMIC CHIP	0.0022μF	10%	50V
C2315	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C2503	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C2317	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C2504	1-126-933-11	ELECT	100μF	20%	16V
C2318	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C2506	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C2319	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C2508	1-126-933-11	ELECT	100μF	20%	16V
C2321	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C2510	1-162-960-11	CERAMIC CHIP	220pF	10%	50V



REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
C2512	1-135-834-91	CERAMIC CHIP	2.2E+06pF	6.3V		C2566	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C2513	1-162-966-11	CERAMIC CHIP	0.0022μF	10%	50V	C2569	1-126-961-11	ELECT	2.2μF	20%	50V
C2514	1-164-156-11	CERAMIC CHIP	0.1μF	25V		C2570	1-162-966-11	CERAMIC CHIP	0.0022μF	10%	50V
C2515	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	C2571	1-164-156-11	CERAMIC CHIP	0.1μF	25V	
C2516	1-126-933-11	ELECT	100μF	20%	16V	C2572	1-126-960-11	ELECT	1μF	20%	50V
C2517	1-162-966-11	CERAMIC CHIP	0.0022μF	10%	50V	C2574	1-162-966-11	CERAMIC CHIP	0.0022μF	10%	50V
C2518	1-162-966-11	CERAMIC CHIP	0.0022μF	10%	50V	C2575	1-126-960-11	ELECT	1μF	20%	50V
C2519	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	C2579	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C2520	1-162-960-11	CERAMIC CHIP	220pF	10%	50V	C2582	1-126-933-11	ELECT	100μF	20%	16V
C2521	1-162-960-11	CERAMIC CHIP	220pF	10%	50V	C2584	1-126-933-11	ELECT	100μF	20%	16V
C2522	1-126-947-11	ELECT	47μF	20%	25V	CONNECTOR					
C2523	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	CN2006	1-793-174-11	SOCKET,PCCONNECTOR (PC BOARD)			
C2524	1-135-834-91	CERAMIC CHIP	2.2E+06pF	6.3V		CN2304	1-764-334-11	PLUG,CONNECTOR		11P	
C2525	1-135-834-91	CERAMIC CHIP	2.2E+06pF	6.3V		CN2305	1-770-721-11	CONNECTOR, BOARD TO BOARD 4P			
C2527	1-135-834-91	CERAMIC CHIP	2.2E+06pF	6.3V		DIODE					
C2528	1-162-962-11	CERAMIC CHIP	470pF	10%	50V	D2300	8-719-914-43	DIODE DAN202K-T-146			
C2530	1-126-947-11	ELECT	47μF	20%	25V	D2301	8-719-914-43	DIODE DAN202K-T-146			
C2532	1-135-834-91	CERAMIC CHIP	2.2E+06pF	6.3V		D2302	8-719-914-44	DIODE DAP202K-T-146			
C2533	1-162-960-11	CERAMIC CHIP	220pF	10%	50V	D2303	8-719-914-44	DIODE DAP202K-T-146			
C2534	1-126-947-11	ELECT	47μF	20%	25V	D2310	8-719-083-57	DIODE UDZSTE-173.6B			
C2535	1-162-962-11	CERAMIC CHIP	470pF	10%	50V	D2500	8-719-404-50	DIODE MA111-TX			
C2536	1-135-834-91	CERAMIC CHIP	2.2E+06pF	6.3V		D2501	8-719-404-50	DIODE MA111-TX			
C2538	1-126-947-11	ELECT	47μF	20%	25V	D2502	8-719-404-50	DIODE MA111-TX			
C2539	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	FERRITE BEAD					
C2540	1-162-915-11	CERAMIC CHIP	10pF	0.50pF	50V	FB2001	1-414-229-11	FERRITE		0μH	
C2541	1-162-915-11	CERAMIC CHIP	10pF	0.50pF	50V	FB2002	1-414-229-11	FERRITE		0μH	
C2542	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	FB2200	1-414-229-11	FERRITE		0μH	
C2543	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	FB2500	1-216-864-11	SHORT CHIP		0	
C2544	1-126-963-11	ELECT	4.7μF	20%	50V	FB2501	1-216-864-11	SHORT CHIP		0	
C2545	1-162-966-11	CERAMIC CHIP	0.0022μF	10%	50V	FB2503	1-216-864-11	SHORT CHIP		0	
C2546	1-162-966-11	CERAMIC CHIP	0.0022μF	10%	50V	FB2504	1-216-864-11	SHORT CHIP		0	
C2548	1-126-947-11	ELECT	47μF	20%	25V	FB2505	1-414-229-11	FERRITE		0μH	
C2549	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	FB2507	1-414-229-11	FERRITE		0μH	
C2550	1-126-963-11	ELECT	4.7μF	20%	50V	FB2508	1-414-229-11	FERRITE		0μH	
C2551	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	FB2509	1-216-864-11	SHORT CHIP		0	
C2553	1-126-947-11	ELECT	47μF	20%	25V	FB2510	1-414-229-11	FERRITE		0μH	
C2554	1-126-947-11	ELECT	47μF	20%	25V	FB2511	1-216-864-11	SHORT CHIP		0	
C2558	1-126-963-11	ELECT	4.7μF	20%	50V	FB2512	1-414-229-11	FERRITE		0μH	
C2559	1-126-933-11	ELECT	100μF	20%	16V	FB2513	1-216-864-11	SHORT CHIP		0	
C2560	1-126-947-11	ELECT	47μF	20%	25V	FB2514	1-216-864-11	SHORT CHIP		0	
C2561	1-126-963-11	ELECT	4.7μF	20%	50V	FB2515	1-414-229-11	FERRITE		0μH	
C2563	1-126-961-11	ELECT	2.2μF	20%	50V						
C2564	1-126-961-11	ELECT	2.2μF	20%	50V						
C2565	1-125-837-91	CERAMIC CHIP	1μF	10%	6.3V						



REF. NO.	PART NO.	DESCRIPTION	VALUES	REF. NO.	PART NO.	DESCRIPTION	VALUES
FB2516	1-414-229-11	FERRITE	0μH	COIL			
FB2517	1-414-229-11	FERRITE	0μH	L2001	1-469-555-21	INDUCTOR	10μH
FB2518	1-414-229-11	FERRITE	0μH	L2003	1-469-555-21	INDUCTOR	10μH
FB2519	1-414-229-11	FERRITE	0μH	L2004	1-469-555-21	INDUCTOR	10μH
FB2520	1-216-864-11	SHORT CHIP	0	L2005	1-469-555-21	INDUCTOR	10μH
FB2521	1-216-864-11	SHORT CHIP	0	L2006	1-469-555-21	INDUCTOR	10μH
FB2522	1-414-229-11	FERRITE	0μH	L2007	1-469-555-21	INDUCTOR	10μH
FILTER				L2008	1-469-555-21	INDUCTOR	10μH
FL2001	1-239-848-21	FILTER, LOW PASS		L2009	1-469-555-21	INDUCTOR	10μH
FL2002	1-239-848-21	FILTER, LOW PASS		L2010	1-469-555-21	INDUCTOR	10μH
FL2003	1-239-848-21	FILTER, LOW PASS		L2011	1-469-555-21	INDUCTOR	10μH
FL2201	1-239-848-21	FILTER, LOW PASS		L2012	1-469-555-21	INDUCTOR	10μH
FL2202	1-239-848-21	FILTER, LOW PASS		L2013	1-469-555-21	INDUCTOR	10μH
FL2203	1-239-848-21	FILTER, LOW PASS		L2200	1-469-555-21	INDUCTOR	10μH
FL2204	1-239-848-21	FILTER, LOW PASS		L2201	1-469-555-21	INDUCTOR	10μH
IC				L2202	1-469-555-21	INDUCTOR	10μH
IC2001	8-752-394-69	IC CXD2073Q-T4		L2203	1-216-001-00	RES-CHIP	10 5% 1/10W
IC2004	8-752-102-21	IC CXA2103AQ		L2204	1-469-555-21	INDUCTOR	10μH
IC2005	8-752-102-21	IC CXA2103AQ		L2205	1-216-001-00	RES-CHIP	10 5% 1/10W
IC2006	8-752-103-44	IC CXA2171Q		L2206	1-469-555-21	INDUCTOR	10μH
IC2008	8-759-448-68	IC NJM2283V-TE1		L2207	1-469-553-21	INDUCTOR	4.7μH
IC2009	6-700-205-01	IC TC74LVX157FT(EL)		L2301	1-469-555-21	INDUCTOR	10μH
IC2010	6-700-205-01	IC TC74LVX157FT(EL)		L2302	1-469-555-21	INDUCTOR	10μH
IC2200	6-700-960-01	IC UPD64083GF-3BA		L2303	1-469-555-21	INDUCTOR	10μH
IC2201	6-700-399-01	IC UPC2925T-E1		L2501	1-412-537-31	INDUCTOR	100μH
IC2300	6-802-167-01	IC M306V3MG-052FP		L2502	1-216-295-91	SHORT CHIP	0
IC2301	6-801-375-01	IC PST9129NL		TRANSISTOR			
IC2302	8-759-682-41	IC M24C32-WMN6T(A)		Q2001	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
IC2303	8-752-930-68	IC CXP964032-001Q		Q2002	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
IC2304	8-752-930-68	IC CXP964032-001Q		Q2003	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
IC2305	8-759-641-26	IC NJM2391DL1-33(TE1)		Q2004	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
IC2500	8-759-394-57	IC PST593C-MMP-4P		Q2005	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
IC2501	6-801-750-01	IC TC94A04F-014		Q2006	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
IC2502	8-759-331-71	IC NJM4558E(TE2)		Q2007	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
IC2504	8-759-642-22	IC UPC29M05T-E2		Q2008	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
CHIP CONDUCTOR				Q2009	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
JR1	1-216-864-11	SHORT CHIP	0	Q2010	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
JR2001	1-216-864-11	SHORT CHIP	0	Q2011	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
JR2002	1-216-864-11	SHORT CHIP	0	Q2012	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
JR2003	1-216-864-11	SHORT CHIP	0	Q2013	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
JR2004	1-216-864-11	SHORT CHIP	0	Q2014	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
JR2005	1-216-864-11	SHORT CHIP	0	Q2015	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	

— 156 —



REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
R2041	1-216-837-11	RES-CHIP	22K	5%	1/10W	R2112	1-216-809-11	RES-CHIP	100	5%	1/10W
R2045	1-218-686-11	METAL CHIP	560	0.50%	1/16W	R2113	1-216-809-11	RES-CHIP	100	5%	1/10W
R2046	1-218-686-11	METAL CHIP	560	0.50%	1/16W	R2114	1-216-805-11	RES-CHIP	47	5%	1/10W
R2048	1-218-710-11	METAL CHIP	5.6K	0.50%	1/16W	R2115	1-216-805-11	RES-CHIP	47	5%	1/10W
R2049	1-218-710-11	METAL CHIP	5.6K	0.50%	1/16W	R2116	1-216-805-11	RES-CHIP	47	5%	1/10W
R2050	1-216-817-11	RES-CHIP	470	5%	1/10W	R2118	1-216-809-11	RES-CHIP	100	5%	1/10W
R2051	1-216-817-11	RES-CHIP	470	5%	1/10W	R2119	1-216-809-11	RES-CHIP	100	5%	1/10W
R2052	1-216-835-11	RES-CHIP	15K	5%	1/10W	R2120	1-216-809-11	RES-CHIP	100	5%	1/10W
R2053	1-216-864-11	SHORT CHIP	0			R2123	1-216-809-11	RES-CHIP	100	5%	1/10W
R2054	1-216-835-11	RES-CHIP	15K	5%	1/10W	R2124	1-216-809-11	RES-CHIP	100	5%	1/10W
R2055	1-216-833-11	RES-CHIP	10K	5%	1/10W	R2125	1-216-809-11	RES-CHIP	100	5%	1/10W
R2056	1-216-809-11	RES-CHIP	100	5%	1/10W	R2126	1-216-809-11	RES-CHIP	100	5%	1/10W
R2057	1-216-809-11	RES-CHIP	100	5%	1/10W	R2131	1-216-809-11	RES-CHIP	100	5%	1/10W
R2058	1-216-809-11	RES-CHIP	100	5%	1/10W	R2133	1-216-864-11	SHORT CHIP	0		
R2059	1-216-809-11	RES-CHIP	100	5%	1/10W	R2201	1-216-821-11	RES-CHIP	1K	5%	1/10W
R2061	1-216-828-11	RES-CHIP	3.9K	5%	1/10W	R2202	1-216-809-11	RES-CHIP	100	5%	1/10W
R2064	1-216-828-11	RES-CHIP	3.9K	5%	1/10W	R2203	1-216-809-11	RES-CHIP	100	5%	1/10W
R2067	1-216-809-11	RES-CHIP	100	5%	1/10W	R2204	1-216-821-11	RES-CHIP	1K	5%	1/10W
R2069	1-216-864-11	SHORT CHIP	0			R2205	1-216-864-11	SHORT CHIP	0		
R2071	1-216-864-11	SHORT CHIP	0			R2206	1-216-864-11	SHORT CHIP	0		
R2072	1-216-841-11	RES-CHIP	47K	5%	1/10W	R2207	1-216-809-11	RES-CHIP	100	5%	1/10W
R2073	1-216-841-11	RES-CHIP	47K	5%	1/10W	R2208	1-216-809-11	RES-CHIP	100	5%	1/10W
R2074	1-216-833-11	RES-CHIP	10K	5%	1/10W	R2209	1-216-821-11	RES-CHIP	1K	5%	1/10W
R2075	1-216-864-11	SHORT CHIP	0			R2210	1-216-818-11	RES-CHIP	560	5%	1/10W
R2076	1-216-864-11	SHORT CHIP	0			R2211	1-216-821-11	RES-CHIP	1K	5%	1/10W
R2077	1-216-833-11	RES-CHIP	10K	5%	1/10W	R2212	1-216-818-11	RES-CHIP	560	5%	1/10W
R2081	1-216-809-11	RES-CHIP	100	5%	1/10W	R2213	1-216-829-11	RES-CHIP	4.7K	5%	1/10W
R2082	1-216-809-11	RES-CHIP	100	5%	1/10W	R2214	1-216-821-11	RES-CHIP	1K	5%	1/10W
R2083	1-216-851-11	RES-CHIP	330K	5%	1/10W	R2215	1-216-830-11	RES-CHIP	5.6K	5%	1/10W
R2086	1-216-818-11	RES-CHIP	560	5%	1/10W	R2216	1-216-817-11	RES-CHIP	470	5%	1/10W
R2087	1-216-818-11	RES-CHIP	560	5%	1/10W	R2217	1-216-817-11	RES-CHIP	470	5%	1/10W
R2091	1-216-809-11	RES-CHIP	100	5%	1/10W	R2218	1-216-830-11	RES-CHIP	5.6K	5%	1/10W
R2092	1-216-818-11	RES-CHIP	560	5%	1/10W	R2219	1-216-830-11	RES-CHIP	5.6K	5%	1/10W
R2093	1-216-818-11	RES-CHIP	560	5%	1/10W	R2220	1-216-821-11	RES-CHIP	1K	5%	1/10W
R2094	1-218-716-11	METAL CHIP	10K	0.50%	1/16W	R2221	1-216-825-11	RES-CHIP	2.2K	5%	1/10W
R2095	1-216-864-11	SHORT CHIP	0			R2222	1-216-833-11	RES-CHIP	10K	5%	1/10W
R2097	1-216-809-11	RES-CHIP	100	5%	1/10W	R2223	1-216-825-11	RES-CHIP	2.2K	5%	1/10W
R2099	1-216-809-11	RES-CHIP	100	5%	1/10W	R2224	1-216-809-11	RES-CHIP	100	5%	1/10W
R2101	1-216-821-11	RES-CHIP	1K	5%	1/10W	R2225	1-216-818-11	RES-CHIP	560	5%	1/10W
R2103	1-216-809-11	RES-CHIP	100	5%	1/10W	R2226	1-216-817-11	RES-CHIP	470	5%	1/10W
R2105	1-216-809-11	RES-CHIP	100	5%	1/10W	R2227	1-216-816-11	RES-CHIP	390	5%	1/10W
R2107	1-216-809-11	RES-CHIP	100	5%	1/10W	R2228	1-216-825-11	RES-CHIP	2.2K	5%	1/10W
R2110	1-216-818-11	RES-CHIP	560	5%	1/10W	R2229	1-216-849-11	RES-CHIP	220K	5%	1/10W
R2111	1-216-818-11	RES-CHIP	560	5%	1/10W	R2230	1-216-841-11	RES-CHIP	47K	5%	1/10W



REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
R2231	1-216-819-11	RES-CHIP	680	5%	1/10W	R2311	1-216-809-11	RES-CHIP	100	5%	1/10W
R2232	1-216-821-11	RES-CHIP	1K	5%	1/10W	R2312	1-216-809-11	RES-CHIP	100	5%	1/10W
R2233	1-216-821-11	RES-CHIP	1K	5%	1/10W	R2313	1-216-809-11	RES-CHIP	100	5%	1/10W
R2234	1-216-820-11	RES-CHIP	820	5%	1/10W	R2314	1-216-809-11	RES-CHIP	100	5%	1/10W
R2235	1-216-822-11	RES-CHIP	1.2K	5%	1/10W	R2315	1-216-809-11	RES-CHIP	100	5%	1/10W
R2236	1-216-813-11	RES-CHIP	220	5%	1/10W	R2316	1-216-809-11	RES-CHIP	100	5%	1/10W
R2237	1-216-820-11	RES-CHIP	820	5%	1/10W	R2317	1-216-809-11	RES-CHIP	100	5%	1/10W
R2238	1-216-819-11	RES-CHIP	680	5%	1/10W	R2318	1-216-821-11	RES-CHIP	1K	5%	1/10W
R2239	1-216-821-11	RES-CHIP	1K	5%	1/10W	R2319	1-216-809-11	RES-CHIP	100	5%	1/10W
R2240	1-216-834-11	RES-CHIP	12K	5%	1/10W	R2320	1-216-809-11	RES-CHIP	100	5%	1/10W
R2241	1-216-839-11	RES-CHIP	33K	5%	1/10W	R2321	1-216-809-11	RES-CHIP	100	5%	1/10W
R2242	1-218-680-11	METAL CHIP	330	0.50%	1/16W	R2322	1-216-809-11	RES-CHIP	100	5%	1/10W
R2243	1-216-834-11	RES-CHIP	12K	5%	1/10W	R2323	1-216-833-11	RES-CHIP	10K	5%	1/10W
R2244	1-216-839-11	RES-CHIP	33K	5%	1/10W	R2324	1-216-809-11	RES-CHIP	100	5%	1/10W
R2245	1-218-684-11	METAL CHIP	470	0.50%	1/16W	R2325	1-216-864-11	SHORT CHIP	0		
R2246	1-216-821-11	RES-CHIP	1K	5%	1/10W	R2326	1-216-809-11	RES-CHIP	100	5%	1/10W
R2247	1-216-805-11	RES-CHIP	47	5%	1/10W	R2327	1-216-809-11	RES-CHIP	100	5%	1/10W
R2248	1-216-821-11	RES-CHIP	1K	5%	1/10W	R2328	1-216-809-11	RES-CHIP	100	5%	1/10W
R2249	1-216-805-11	RES-CHIP	47	5%	1/10W	R2329	1-216-815-11	RES-CHIP	330	5%	1/10W
R2250	1-216-830-11	RES-CHIP	5.6K	5%	1/10W	R2330	1-216-817-11	RES-CHIP	470	5%	1/10W
R2251	1-216-818-11	RES-CHIP	560	5%	1/10W	R2333	1-216-809-11	RES-CHIP	100	5%	1/10W
R2252	1-216-821-11	RES-CHIP	1K	5%	1/10W	R2335	1-216-820-11	RES-CHIP	820	5%	1/10W
R2253	1-216-809-11	RES-CHIP	100	5%	1/10W	R2336	1-216-809-11	RES-CHIP	100	5%	1/10W
R2254	1-216-817-11	RES-CHIP	470	5%	1/10W	R2337	1-216-809-11	RES-CHIP	100	5%	1/10W
R2255	1-216-817-11	RES-CHIP	470	5%	1/10W	R2338	1-216-864-11	SHORT CHIP	0		
R2256	1-216-821-11	RES-CHIP	1K	5%	1/10W	R2339	1-216-809-11	RES-CHIP	100	5%	1/10W
R2257	1-216-864-11	SHORT CHIP	0			R2340	1-216-809-11	RES-CHIP	100	5%	1/10W
R2258	1-216-833-11	RES-CHIP	10K	5%	1/10W	R2341	1-216-809-11	RES-CHIP	100	5%	1/10W
R2259	1-216-833-11	RES-CHIP	10K	5%	1/10W	R2342	1-216-829-11	RES-CHIP	4.7K	5%	1/10W
R2260	1-216-840-11	RES-CHIP	39K	5%	1/10W	R2343	1-216-833-11	RES-CHIP	10K	5%	1/10W
R2261	1-216-821-11	RES-CHIP	1K	5%	1/10W	R2344	1-216-833-11	RES-CHIP	10K	5%	1/10W
R2298	1-216-821-11	RES-CHIP	1K	5%	1/10W	R2345	1-216-809-11	RES-CHIP	100	5%	1/10W
R2299	1-216-841-11	RES-CHIP	47K	5%	1/10W	R2346	1-218-734-11	METAL CHIP	56K	0.50%	1/16W
R2300	1-216-841-11	RES-CHIP	47K	5%	1/10W	R2347	1-216-833-11	RES-CHIP	10K	5%	1/10W
R2301	1-216-809-11	RES-CHIP	100	5%	1/10W	R2348	1-216-829-11	RES-CHIP	4.7K	5%	1/10W
R2302	1-216-809-11	RES-CHIP	100	5%	1/10W	R2349	1-216-833-11	RES-CHIP	10K	5%	1/10W
R2303	1-216-809-11	RES-CHIP	100	5%	1/10W	R2350	1-216-809-11	RES-CHIP	100	5%	1/10W
R2304	1-216-829-11	RES-CHIP	4.7K	5%	1/10W	R2351	1-216-833-11	RES-CHIP	10K	5%	1/10W
R2305	1-216-809-11	RES-CHIP	100	5%	1/10W	R2352	1-216-833-11	RES-CHIP	10K	5%	1/10W
R2306	1-216-809-11	RES-CHIP	100	5%	1/10W	R2353	1-216-809-11	RES-CHIP	100	5%	1/10W
R2307	1-216-809-11	RES-CHIP	100	5%	1/10W	R2354	1-216-829-11	RES-CHIP	4.7K	5%	1/10W
R2308	1-216-809-11	RES-CHIP	100	5%	1/10W	R2355	1-216-809-11	RES-CHIP	100	5%	1/10W
R2309	1-216-809-11	RES-CHIP	100	5%	1/10W	R2356	1-216-805-11	RES-CHIP	47	5%	1/10W
R2310	1-216-833-11	RES-CHIP	10K	5%	1/10W	R2357	1-216-833-11	RES-CHIP	10K	5%	1/10W



REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
R2358	1-216-821-11	RES-CHIP	1K	5%	1/10W	R2402	1-216-811-11	RES-CHIP	150	5%	1/10W
R2359	1-216-805-11	RES-CHIP	47	5%	1/10W	R2403	1-216-857-11	RES-CHIP	1M	5%	1/10W
R2360	1-216-864-11	SHORT CHIP	0			R2404	1-218-706-11	METAL CHIP	3.9K	0.50%	1/16W
R2361	1-216-864-11	SHORT CHIP	0			R2405	1-216-811-11	RES-CHIP	150	5%	1/10W
R2362	1-216-805-11	RES-CHIP	47	5%	1/10W	R2406	1-216-811-11	RES-CHIP	150	5%	1/10W
R2363	1-216-841-11	RES-CHIP	47K	5%	1/10W	R2407	1-216-811-11	RES-CHIP	150	5%	1/10W
R2364	1-216-809-11	RES-CHIP	100	5%	1/10W	R2408	1-216-829-11	RES-CHIP	4.7K	5%	1/10W
R2365	1-216-864-11	SHORT CHIP	0			R2409	1-216-833-11	RES-CHIP	10K	5%	1/10W
R2366	1-216-864-11	SHORT CHIP	0			R2410	1-216-833-11	RES-CHIP	10K	5%	1/10W
R2367	1-216-829-11	RES-CHIP	4.7K	5%	1/10W	R2411	1-216-825-11	RES-CHIP	2.2K	5%	1/10W
R2368	1-216-809-11	RES-CHIP	100	5%	1/10W	R2412	1-216-825-11	RES-CHIP	2.2K	5%	1/10W
R2369	1-216-805-11	RES-CHIP	47	5%	1/10W	R2413	1-216-829-11	RES-CHIP	4.7K	5%	1/10W
R2370	1-216-833-11	RES-CHIP	10K	5%	1/10W	R2414	1-216-827-11	RES-CHIP	3.3K	5%	1/10W
R2371	1-216-809-11	RES-CHIP	100	5%	1/10W	R2415	1-218-692-11	METAL CHIP	1K	0.50%	1/16W
R2372	1-216-809-11	RES-CHIP	100	5%	1/10W	R2416	1-216-833-11	RES-CHIP	10K	5%	1/10W
R2373	1-216-864-11	SHORT CHIP	0			R2417	1-216-827-11	RES-CHIP	3.3K	5%	1/10W
R2374	1-216-864-11	SHORT CHIP	0			R2418	1-218-692-11	METAL CHIP	1K	0.50%	1/16W
R2375	1-216-837-11	RES-CHIP	22K	5%	1/10W	R2419	1-216-825-11	RES-CHIP	2.2K	5%	1/10W
R2376	1-216-805-11	RES-CHIP	47	5%	1/10W	R2420	1-216-825-11	RES-CHIP	2.2K	5%	1/10W
R2377	1-216-833-11	RES-CHIP	10K	5%	1/10W	R2421	1-216-841-11	RES-CHIP	47K	5%	1/10W
R2378	1-216-829-11	RES-CHIP	4.7K	5%	1/10W	R2422	1-216-833-11	RES-CHIP	10K	5%	1/10W
R2379	1-216-821-11	RES-CHIP	1K	5%	1/10W	R2423	1-216-833-11	RES-CHIP	10K	5%	1/10W
R2380	1-216-809-11	RES-CHIP	100	5%	1/10W	R2424	1-216-833-11	RES-CHIP	10K	5%	1/10W
R2381	1-216-833-11	RES-CHIP	10K	5%	1/10W	R2425	1-216-825-11	RES-CHIP	2.2K	5%	1/10W
R2382	1-216-833-11	RES-CHIP	10K	5%	1/10W	R2426	1-216-841-11	RES-CHIP	47K	5%	1/10W
R2383	1-216-833-11	RES-CHIP	10K	5%	1/10W	R2427	1-216-833-11	RES-CHIP	10K	5%	1/10W
R2384	1-216-833-11	RES-CHIP	10K	5%	1/10W	R2428	1-216-824-11	RES-CHIP	1.8K	5%	1/10W
R2385	1-216-833-11	RES-CHIP	10K	5%	1/10W	R2429	1-216-824-11	RES-CHIP	1.8K	5%	1/10W
R2386	1-216-833-11	RES-CHIP	10K	5%	1/10W	R2430	1-216-825-11	RES-CHIP	2.2K	5%	1/10W
R2387	1-216-833-11	RES-CHIP	10K	5%	1/10W	R2431	1-216-841-11	RES-CHIP	47K	5%	1/10W
R2388	1-216-815-11	RES-CHIP	330	5%	1/10W	R2432	1-216-841-11	RES-CHIP	47K	5%	1/10W
R2389	1-216-815-11	RES-CHIP	330	5%	1/10W	R2433	1-216-833-11	RES-CHIP	10K	5%	1/10W
R2390	1-216-809-11	RES-CHIP	100	5%	1/10W	R2434	1-216-821-11	RES-CHIP	1K	5%	1/10W
R2391	1-216-809-11	RES-CHIP	100	5%	1/10W	R2435	1-216-820-11	RES-CHIP	820	5%	1/10W
R2392	1-216-809-11	RES-CHIP	100	5%	1/10W	R2436	1-216-820-11	RES-CHIP	820	5%	1/10W
R2393	1-216-809-11	RES-CHIP	100	5%	1/10W	R2437	1-216-809-11	RES-CHIP	100	5%	1/10W
R2394	1-216-864-11	SHORT CHIP	0			R2438	1-216-820-11	RES-CHIP	820	5%	1/10W
R2395	1-216-864-11	SHORT CHIP	0			R2450	1-216-864-11	SHORT CHIP	0		
R2396	1-216-833-11	RES-CHIP	10K	5%	1/10W	R2452	1-216-839-11	RES-CHIP	33K	5%	1/10W
R2397	1-216-833-11	RES-CHIP	10K	5%	1/10W	R2453	1-216-833-11	RES-CHIP	10K	5%	1/10W
R2398	1-216-857-11	RES-CHIP	1M	5%	1/10W	R2454	1-216-809-11	RES-CHIP	100	5%	1/10W
R2399	1-218-706-11	METAL CHIP	3.9K	0.50%	1/16W	R2455	1-216-833-11	RES-CHIP	10K	5%	1/10W
R2400	1-216-811-11	RES-CHIP	150	5%	1/10W	R2459	1-216-821-11	RES-CHIP	1K	5%	1/10W
R2401	1-216-811-11	RES-CHIP	150	5%	1/10W	R2460	1-216-809-11	RES-CHIP	100	5%	1/10W



REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
R2461	1-216-833-11	RES-CHIP	10K	5%	1/10W	R2533	1-216-864-11	SHORT CHIP	0		
R2463	1-216-833-11	RES-CHIP	10K	5%	1/10W	R2534	1-216-837-11	RES-CHIP	22K	5%	1/10W
R2464	1-216-833-11	RES-CHIP	10K	5%	1/10W	R2535	1-216-821-11	RES-CHIP	1K	5%	1/10W
R2466	1-216-833-11	RES-CHIP	10K	5%	1/10W	R2536	1-216-829-11	RES-CHIP	4.7K	5%	1/10W
R2467	1-216-833-11	RES-CHIP	10K	5%	1/10W	R2538	1-216-841-11	RES-CHIP	47K	5%	1/10W
R2469	1-216-809-11	RES-CHIP	100	5%	1/10W	R2539	1-216-841-11	RES-CHIP	47K	5%	1/10W
R2470	1-216-833-11	RES-CHIP	10K	5%	1/10W	R2540	1-216-864-11	SHORT CHIP	0		
R2471	1-216-833-11	RES-CHIP	10K	5%	1/10W	R2541	1-216-864-11	SHORT CHIP	0		
R2472	1-216-833-11	RES-CHIP	10K	5%	1/10W	R2542	1-216-829-11	RES-CHIP	4.7K	5%	1/10W
R2473	1-216-839-11	RES-CHIP	33K	5%	1/10W	R2543	1-216-864-11	SHORT CHIP	0		
R2474	1-216-837-11	RES-CHIP	22K	5%	1/10W	R2546	1-216-813-11	RES-CHIP	220	5%	1/10W
R2480	1-216-845-11	RES-CHIP	100K	5%	1/10W	R2547	1-216-813-11	RES-CHIP	220	5%	1/10W
R2481	1-216-833-11	RES-CHIP	10K	5%	1/10W	R2548	1-216-841-11	RES-CHIP	47K	5%	1/10W
R2483	1-216-829-11	RES-CHIP	4.7K	5%	1/10W	R2549	1-216-813-11	RES-CHIP	220	5%	1/10W
R2484	1-216-841-11	RES-CHIP	47K	5%	1/10W	R2550	1-216-821-11	RES-CHIP	1K	5%	1/10W
R2500	1-216-809-11	RES-CHIP	100	5%	1/10W	R2551	1-216-821-11	RES-CHIP	1K	5%	1/10W
R2501	1-216-839-11	RES-CHIP	33K	5%	1/10W	R2552	1-216-809-11	RES-CHIP	100	5%	1/10W
R2502	1-216-864-11	SHORT CHIP	0			R2553	1-216-853-11	RES-CHIP	470K	5%	1/10W
R2503	1-216-829-11	RES-CHIP	4.7K	5%	1/10W	R2554	1-216-809-11	RES-CHIP	100	5%	1/10W
R2506	1-216-841-11	RES-CHIP	47K	5%	1/10W	R2555	1-216-853-11	RES-CHIP	470K	5%	1/10W
R2508	1-216-825-11	RES-CHIP	2.2K	5%	1/10W	R2556	1-216-821-11	RES-CHIP	1K	5%	1/10W
R2509	1-216-829-11	RES-CHIP	4.7K	5%	1/10W	R2557	1-216-821-11	RES-CHIP	1K	5%	1/10W
R2510	1-216-839-11	RES-CHIP	33K	5%	1/10W	R2558	1-216-833-11	RES-CHIP	10K	5%	1/10W
R2511	1-216-839-11	RES-CHIP	33K	5%	1/10W	R2559	1-216-833-11	RES-CHIP	10K	5%	1/10W
R2512	1-216-829-11	RES-CHIP	4.7K	5%	1/10W	R2560	1-216-833-11	RES-CHIP	10K	5%	1/10W
R2513	1-216-825-11	RES-CHIP	2.2K	5%	1/10W	R2561	1-216-833-11	RES-CHIP	10K	5%	1/10W
R2514	1-216-841-11	RES-CHIP	47K	5%	1/10W	R2562	1-216-833-11	RES-CHIP	10K	5%	1/10W
R2515	1-216-841-11	RES-CHIP	47K	5%	1/10W	R2563	1-216-833-11	RES-CHIP	10K	5%	1/10W
R2516	1-216-839-11	RES-CHIP	33K	5%	1/10W	R2564	1-216-817-11	RES-CHIP	470	5%	1/10W
R2517	1-216-841-11	RES-CHIP	47K	5%	1/10W	R2565	1-216-837-11	RES-CHIP	22K	5%	1/10W
R2518	1-216-825-11	RES-CHIP	2.2K	5%	1/10W	R2566	1-216-837-11	RES-CHIP	22K	5%	1/10W
R2519	1-216-857-11	RES-CHIP	1M	5%	1/10W	R2567	1-216-821-11	RES-CHIP	1K	5%	1/10W
R2520	1-216-864-11	SHORT CHIP	0			R2568	1-216-837-11	RES-CHIP	22K	5%	1/10W
R2521	1-216-864-11	SHORT CHIP	0			R2569	1-216-821-11	RES-CHIP	1K	5%	1/10W
R2522	1-216-829-11	RES-CHIP	4.7K	5%	1/10W	R2570	1-216-837-11	RES-CHIP	22K	5%	1/10W
R2523	1-216-813-11	RES-CHIP	220	5%	1/10W	R2571	1-216-821-11	RES-CHIP	1K	5%	1/10W
R2524	1-216-809-11	RES-CHIP	100	5%	1/10W	R2572	1-216-837-11	RES-CHIP	22K	5%	1/10W
R2525	1-216-813-11	RES-CHIP	220	5%	1/10W	R2573	1-216-837-11	RES-CHIP	22K	5%	1/10W
R2526	1-216-864-11	SHORT CHIP	0			R2574	1-216-837-11	RES-CHIP	22K	5%	1/10W
R2528	1-216-809-11	RES-CHIP	100	5%	1/10W	R2575	1-216-837-11	RES-CHIP	22K	5%	1/10W
R2529	1-216-809-11	RES-CHIP	100	5%	1/10W	R2576	1-216-821-11	RES-CHIP	1K	5%	1/10W
R2530	1-216-809-11	RES-CHIP	100	5%	1/10W	R2577	1-216-837-11	RES-CHIP	22K	5%	1/10W
R2531	1-216-821-11	RES-CHIP	1K	5%	1/10W	R2578	1-216-821-11	RES-CHIP	1K	5%	1/10W
R2532	1-216-837-11	RES-CHIP	22K	5%	1/10W	R2579	1-216-837-11	RES-CHIP	22K	5%	1/10W



REF. NO.	PART NO.	DESCRIPTION	VALUES		
R2580	1-216-821-11	RES-CHIP	1K	5%	1/10W
R2581	1-216-825-11	RES-CHIP	2.2K	5%	1/10W
R2582	1-216-809-11	RES-CHIP	100	5%	1/10W
R2584	1-216-813-11	RES-CHIP	220	5%	1/10W
R2585	1-216-864-11	SHORT CHIP	0		
R2593	1-216-864-11	SHORT CHIP	0		
R2603	1-216-845-11	RES-CHIP	100K	5%	1/10W
R2604	1-216-845-11	RES-CHIP	100K	5%	1/10W
R2605	1-216-864-11	SHORT CHIP	0		
R2607	1-216-821-11	RES-CHIP	1K	5%	1/10W
R2608	1-216-833-11	RES-CHIP	10K	5%	1/10W

CRYSTAL

X2001	1-567-505-11	OSCILLATOR, CRYSTAL
X2002	1-567-505-11	OSCILLATOR, CRYSTAL
X2003	1-781-282-11	VIBRATOR, CERAMIC
X2200	1-767-606-11	VIBRATOR, CRYSTAL
X2300	1-795-572-11	VIBRATOR, CRYSTAL
X2302	1-795-565-21	VIBRATOR, CERAMIC
X2303	1-795-565-21	VIBRATOR, CERAMIC
X2500	1-767-639-21	VIBRATOR, CRYSTAL



* **A-1400-747-A HB BOARD, MOUNTED**

CAPACITOR

C1100	1-126-960-11	ELECT	1μF	20%	50V
C1101	1-126-960-11	ELECT	1μF	20%	50V

CONNECTOR

* CN1101 1-564-526-11 PLUG,CONNECTOR 11P

DIODE

D1100	8-719-110-17	DIODE MTZJ-T-77-10B
D1101	8-719-110-17	DIODE MTZJ-T-77-10B
D1103	8-719-110-17	DIODE MTZJ-T-77-10B

JACK

J1101 1-770-361-11 TERMINAL BLOCK, S

RESISTOR

R1100 1-247-895-91 CARBON 470K 5% 1/4W

REF. NO.	PART NO.	DESCRIPTION	VALUES		
R1101	1-247-895-91	CARBON	470K	5%	1/4W
R1102	1-247-804-11	CARBON	75	5%	1/4W
R1103	1-247-804-11	CARBON	75	5%	1/4W
R1106	1-249-417-11	CARBON	1K	5%	1/4W
R1107	1-247-804-11	CARBON	75	5%	1/4W



The HM board is not field repairable. If service is required, use the following part number to order a complete replacement board. Data is provided for reference only.

* **A-1300-323-A HM BOARD, MOUNTED**

CAPACITOR

C7205	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C7206	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V
C7208	1-124-779-00	ELECT CHIP	10μF	20%	16V
C7209	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C7210	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V
C7212	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C7213	1-124-778-00	ELECT CHIP	22μF	20%	6.3V
C7214	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C7215	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C7216	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V

C7217	1-124-778-00	ELECT CHIP	22μF	20%	6.3V
C7219	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C7220	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V

CONNECTOR

* CN7201 1-816-402-11 CONNECTOR, MEMORY STICK
CN7205 1-695-915-11 TAB (CONTACT)

DIODE

D7201	8-719-800-76	DIODE MA153-TX
D7202	8-719-800-76	DIODE MA153-TX
D7203	8-719-800-76	DIODE MA153-TX
D7204	8-719-800-76	DIODE MA153-TX
D7205	8-719-800-76	DIODE MA153-TX

D7206	8-719-800-76	DIODE MA153-TX
D7207	8-719-800-76	DIODE MA153-TX
D7208	8-719-800-76	DIODE MA153-TX
D7209	6-500-182-01	DIODE L1503CB/ID
D7210	8-719-083-58	DIODE UDZSTE-173.9B



REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
D7211	8-719-083-58	DIODE UDZSTE-173.9B				R7222	1-216-809-11	RES-CHIP	100	5%	1/10W
D7212	8-719-800-76	DIODE MA153-TX				R7224	1-216-833-11	RES-CHIP	10K	5%	1/10W
D7213	8-719-800-76	DIODE MA153-TX				R7225	1-216-845-11	RES-CHIP	100K	5%	1/10W
D7214	8-719-800-76	DIODE MA153-TX				R7226	1-218-716-11	METAL CHIP	10K	0.50%	1/16W
D7215	8-719-800-76	DIODE MA153-TX				R7228	1-216-864-11	SHORT CHIP	0		
D7216	8-719-800-76	DIODE MA153-TX				R7231	1-216-864-11	SHORT CHIP	0		
D7217	8-719-800-76	DIODE MA153-TX				R7232	1-216-841-11	RES-CHIP	47K	5%	1/10W
						R7233	1-216-841-11	RES-CHIP	47K	5%	1/10W
<u>FERRITE BEAD</u>						HA * A-1400-748-A HA BOARD, MOUNTED					
FB7201	1-414-921-11	FERRITE	0μH								
FB7202	1-414-921-11	FERRITE	0μH			<u>CAPACITOR</u>					
FB7203	1-414-921-11	FERRITE	0μH			C1201	1-126-157-11	ELECT	10μF	20%	16V
FB7204	1-414-921-11	FERRITE	0μH			<u>CONNECTOR</u>					
<u>IC</u>						* CN1201	1-564-525-11	PLUG,CONNECTOR	10P		
IC7201	8-759-639-86	IC SN65LVDS32DR				<u>DIODE</u>					
IC7202	6-701-763-11	IC DS90LV017ATMX				D1201	8-719-053-43	DIODE SLR-325VCT31			
IC7203	8-759-698-08	IC SN74CBTLV1G125DCKR				D1202	8-719-053-43	DIODE SLR-325VCT31			
<u>COIL</u>						<u>IC</u>					
L7201	1-419-370-21	INDUCTOR	0μH			IC1201	8-742-129-00	HYB IC SBX1971-51P			
L7202	1-419-370-21	INDUCTOR	0μH			<u>RESISTOR</u>					
L7203	1-419-370-21	INDUCTOR	0μH			R1201	1-247-807-31	CARBON	100	5%	1/4W
L7204	1-419-370-21	INDUCTOR	0μH			R1202	1-249-413-11	CARBON	470	5%	1/4W
L7205	1-419-370-21	INDUCTOR	0μH			R1203	1-249-415-11	CARBON	680	5%	1/4W
<u>TRANSISTOR</u>						R1204	1-249-417-11	CARBON	1K	5%	1/4W
Q7201	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX				R1205	1-249-421-11	CARBON	2.2K	5%	1/4W
Q7202	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX				R1206	1-249-409-11	CARBON	220	5%	1/4W
Q7203	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX				R1207	1-249-409-11	CARBON	220	5%	1/4W
<u>RESISTOR</u>						R1208	1-249-393-11	CARBON	10	5%	1/4W
R7201	1-216-801-11	RES-CHIP	22	5%	1/10W	R1209	1-249-433-11	CARBON	22K	5%	1/4W
R7202	1-216-801-11	RES-CHIP	22	5%	1/10W	<u>SWITCH</u>					
R7204	1-216-801-11	RES-CHIP	22	5%	1/10W	S1201	1-572-198-11	SWITCH KEYBOARD			
R7205	1-218-692-11	METAL CHIP	1K	0.50%	1/16W	S1202	1-572-198-11	SWITCH KEYBOARD			
R7206	1-216-809-11	RES-CHIP	100	5%	1/10W	S1203	1-572-198-11	SWITCH KEYBOARD			
R7207	1-216-809-11	RES-CHIP	100	5%	1/10W	S1204	1-572-198-11	SWITCH KEYBOARD			
R7208	1-216-809-11	RES-CHIP	100	5%	1/10W	S1205	1-572-198-11	SWITCH KEYBOARD			
R7209	1-216-809-11	RES-CHIP	100	5%	1/10W	S1206	1-572-198-11	SWITCH KEYBOARD			
R7210	1-216-803-11	RES-CHIP	33	5%	1/10W	S1207	1-572-198-11	SWITCH KEYBOARD			
R7221	1-216-821-11	RES-CHIP	1K	5%	1/10W						



REF. NO.	PART NO.	DESCRIPTION	VALUES	REF. NO.	PART NO.	DESCRIPTION	VALUES
SR The SR board is <u>not</u> field repairable. If service is required, use the following part number to order a complete replacement board. Data is provided for reference only. * A-1400-759-A SR BOARD, MOUNTED <u>CONNECTOR</u> * CN9901 1-564-506-11 PLUG,CONNECTOR 3P <u>DIODE</u> D9902 8-719-069-55 DIODE UDZSTE-175.6B <u>BATTERY</u> SB9901 1-756-295-11 BATTERY, SOLAR				<u>ACCESSORIES AND PACKING</u> 1-796-426-11 CD-ROM * 4-042-463-01 SHEET, PROTECTION * 4-076-420-01 BAG, PROTECTION 4-088-026-11 MANUAL, INSTRUCTION 4-088-026-21 MANUAL, INSTRUCTION (KP-57WV700/65WV700 ONLY) 4-088-026-31 MANUAL, INSTRUCTION (KP-65WV700 ONLY) * 4-088-440-01 CUSHION, UPPER (KP-57WV600/57WV700 ONLY) * 4-088-441-01 CUSHION, LOWER (KP-57WV700 ONLY) * 4-088-444-01 CUSHION, LOWER (KP-57WV600 ONLY) * 4-088-445-01 CUSHION, UPPER (KP-65WV600/65WV700 ONLY) * 4-088-446-01 CUSHION, LOWER (KP-65WV600/65WV700 ONLY) * 4-088-442-01 INDIVIDUAL, CARTON (KP-57WV600/57WV700 ONLY) * 4-088-447-01 INDIVIDUAL, CARTON (KP-65WV600/65WV700 ONLY) * 4-088-443-01 TRAY (KP-57WV600/57WV700 ONLY) * 4-088-448-01 TRAY (KP-65WV600/65WV700 ONLY) 1-468-681-11 REMOTE COMMANDER RM-Y188 4-081-888-01 BATTERY COVER (for RM-Y188)			

In an effort to reduce the size of this pdf file the tiled schematics are not attached to this Service Manual. To receive a complete set of the tiled schematics for this manual please submit a request to Nita Wardlaw at nita.wardlaw@am.sony.com.